

Appendix F

Correspondence with Agencies

H334844

April 5, 2010

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

Dear Ms. Dumais

**Subject: Draft Project Description Reports
Northland Power Inc. Solar Projects**

On behalf of Northland Power Inc., please find attached Draft Project Description Reports for 11 proposed solar projects. Each Draft Project Description Report has been prepared in accordance with Section 13 and 14(1)(a) of Ontario Regulation 359/09 and MOE's draft Guidance for Preparing the Project Description Report.

As per Section 14(1)(b) of Ontario Regulation 359/09, we look forward to receiving from you the list of Aboriginal communities that we will consult with on each project.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-0701 (Ext. 5318) or karnold@hatch.ca.

Sincerely,

A handwritten signature in blue ink, appearing to be "K. Arnold", written over a circular scribble.

Kimberley Arnold, B.Sc., M.E.S.
Manager, Environmental Services, Renewable Power

Attachment(s)

cc: M. Lord, Northland Power Inc.
T. Hockin, Northland Power Inc.

May 11, 2010

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

Dear Ms. Dumais

**Subject: Revised Draft Project Description Reports
Northland Power Inc. Solar Projects**

On behalf of Northland Power Inc., please find attached the revised Draft Project Description Reports for nine proposed solar projects. As discussed with Narren Santos, Program Support Coordinator, we have revised the Project Description Reports to meet Ontario Ministry of the Environment requirements. In particular, we have revised Section 2.2 and Table 2.1 of each report. Each Draft Project Description Report has been prepared in accordance with Section 13 and 14(1)(a) of Ontario Regulation 359/09 and MOE's draft Guidance for Preparing the Project Description Report.

As per Section 14(1)(b) of Ontario Regulation 359/09, we look forward to receiving from you the list of Aboriginal communities that we will consult with on each project. We are in the process of commencing the Public and Aboriginal consultation by sending Notices of a Proposal and of First Public Meeting and as such require the list of Aboriginal communities as soon as possible to not impact project timelines.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-0701 (Ext. 5318) or karnold@hatch.ca.

Sincerely,



Kimberley Arnold, B.Sc., M.E.S.
Manager, Environmental Services, Renewable Power

Attachment(s)

cc: M. Lord, Northland Power Inc.
T. Hockin, Northland Power Inc.

H334844

August 12, 2010

Doris Dumais, Director, Environmental Assessment and Approvals Branch
Ministry of the Environment
2 St. Clair Ave., W, 12A Floor
Toronto, ON M4V 1L5

Dear Ms. Dumais:

**Subject: Notice of a Proposal and Notice of Public Meeting: Northland Power:
Burk's Falls East Solar Project**

Northland Power is proposing to construct a solar project in the Township of Armour, just southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power is undertaking a public consultation program in support of the Project and we would like to invite you to the upcoming Public Consultation Meeting. Please find attached a "Notice of a Proposal to Engage in a Renewable Energy Project and Notice of Public Meeting", which details the time and date of the planned meeting. This joint Notice will also be published in the *Almaguin News* on August 12, 2010 and August 19, 2010. The Public Consultation Meeting will provide the public with an opportunity to learn more about our Project proposal and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, a draft "Project Description Report" and associated information pertaining to this Project and about Northland Power can be found on-line at: www.northlandpower.ca/burksfallseast. We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280 Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator

SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334680-0000-07-218-0036

H334844

August 12, 2010

Brian Cameron, District Manager
Ministry of the Environment
Sudbury District Office, Suite 1201, 199 Larch St.
Sudbury, ON P3E 5P9

Dear Mr. Cameron:

**Subject: Notice of a Proposal and Notice of Public Meeting: Northland Power:
Burk's Falls East Solar Project**

Northland Power is proposing to construct a solar project in the Township of Armour, just southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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Yours truly,



Sean Male, M.Sc.
REA Coordinator

SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334680-0000-07-218-0036

H334844

September 28, 2010

Doris Dumais, Director, Environmental Assessment and Approvals Branch
Ministry of the Environment
2 St. Clair Ave., W, 12A Floor
Toronto, ON M4V 1L5

Dear Ms. Dumais:

Subject: Notice of a Notice of Public Meeting: Northland Power: Burk's Falls East Solar Project

Northland Power is proposing to construct a solar project in the Township of Armour, just southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power has acquired additional lands for the Project and as a result is repeating the first public meeting in support of the Project, and we would like to invite you to the upcoming Public Consultation Meeting. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in the *Almaguin News* on September 30, 2010 and October 7, 2010. The Public Consultation Meeting will provide the public with an opportunity to learn more about our Project proposal and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, an updated draft "Project Description Report" and associated information pertaining to this Project and about Northland Power can be found online at: www.northlandpower.ca/burksfallseast. We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

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4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280 Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator
SM:srg
Attachment: Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
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H334680-0000-07-218-0036

H334844

September 28, 2010

Brian Cameron, District Manager
Ministry of the Environment
Sudbury District Office, Suite 1201, 199 Larch St.
Sudbury, ON P3E 5P9

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Yours truly,



Sean Male, M.Sc.
REA Coordinator
SM:srg
Attachment: Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334680-0000-07-218-0036

H334844

March 7, 2011

Doris Dumais, Director, Environmental Assessment and Approvals Branch
Ministry of the Environment
2 St. Clair Ave., W, 12A Floor
Toronto, ON M4V 1L5

Subject: Notice of Public Meeting - Northland Power Solar Burk's Falls East L.P - Burk's Falls East Solar Project

Northland Power Solar Burk's Falls East L.P (hereafter referred to as "Northland") is proposing to construct a solar project in Township of Armour, just east of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland has retained Hatch to assist in fulfilling the requirements of the REA process.

As you are aware, Northland has initiated a public consultation program in support of the Project. This letter is inviting you to an upcoming Public Consultation Meeting. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in the *Almaguin News* on March 10, 2011 and again on April 14, 2011.

Along with an invitation to a Public Consultation Meeting, this letter is to provide notice that the supporting documents, as per Section 16 (1) of Ontario Regulation 359/09 are available for your review. These documents include the Natural Heritage Reports, Water Body Reports, Construction Plan Report, Design and Operation Report, Decommissioning Plan Report, Noise Assessment Study and Stage 1 and 2 Archaeology Assessment Report. As well, to aid in your review an executive summary is also provided. These reports are available on line at northlandpower.ca/burksfallseast and at the Township Armour municipal office. Further, the information provided in these reports will be discussed during the Public Consultation Meeting from 10:00am to 12:00pm on May 14, 2011 at the Armour, Ryerson and Burk's Falls Memorial Arena and Community Centre, 220 Centre Street, Burk's Falls, Ontario. We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator

March 7th, 2011

SM:mg

Attachment: Notice of Public Meeting: Burk's Falls East Solar Project

cc: Mike Lord, Northland Power

Tom Hockin, Northland Power

H334844

March 7, 2011

Brian Cameron, District Manager
Ministry of the Environment
Sudbury District Office, Suite 1201, 199 Larch St.
Sudbury, ON P3E 5P9

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As you are aware, Northland has initiated a public consultation program in support of the Project. This letter is inviting you to an upcoming Public Consultation Meeting. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in the *Almaguin News* on March 10, 2011 and again on April 14, 2011.

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Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator

March 7th, 2011

SM:mg

Attachment: Notice of Public Meeting: Burk's Falls East Solar Project

cc: Mike Lord, Northland Power

Tom Hockin, Northland Power

McRae, Elizabeth

From: Male, Sean
Sent: Thursday, May 27, 2010 8:49 AM
To: 'Benner, Kim (MNR)'
Cc: Collins, Anne (MNR); 'mike.lord@northlandpower.ca'; 'tom.hockin@northlandpower.ca'; 334844; Arnold, Kimberley
Subject: RE: Northland Power Proposed Solar Projects
Attachments: H334844-0000-07-124-0005 - Burks Falls East - Rev D.pdf; Burks Falls East - Figure.pdf; Burks Falls West - Figure.pdf; H334844-0000-07-124-0006 - Burks Falls West - Rev D.pdf

Hi Kim,

Please find attached copies of the Project Description Reports and associated figures that were submitted to MOE for your review prior to our meeting tomorrow afternoon.

Tom Hockin of Northland Power and myself will be in attendance at the meeting. I will bring along hard copies of the project description reports and figures showing the project locations.

I am proposing the following agenda for the meeting:

- Introduction to Northland Power and Hatch
- Renewable Energy Approval Process
- Project Descriptions
- Discussion of environmental features under MNR jurisdiction associated with each Project
- Questions/Comments
- Follow-up

Please feel free to contact me if you have any questions.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: Benner, Kim (MNR) [<mailto:kim.benner@ontario.ca>]
Sent: Thursday, May 13, 2010 2:32 PM
To: Male, Sean
Cc: Collins, Anne (MNR)
Subject: Northland Power Proposed Solar Projects

Hi Sean,

Anne Collins, Parry Sound District's Planning and Information Management Supervisor has asked me to confirm with you that we are available to meet with you and Northland Power representatives on the afternoon of Friday May 28th here in the Bracebridge MNR Boardroom, for the purpose of discussing potential concerns, baseline studies and approval and permitting requirements by MNR for two solar projects with FIT contracts on private land in the Burk's Falls area (Armour and Ryerson Twp). Would 1:30pm be a convenient time? Please confirm at your earliest convenience.

If you could provide a brief description of each of the solar projects and associated/ancillary infrastructure that is being considered, this would help us prepare for the meeting.

Thanks,

Kim Benner
District Planner
Bracebridge Area Office
1350 High Falls Road, Bracebridge
Parry Sound District MNR
(705) 646-5520
(705) 645-8372 (fax)
kim.benner@ontario.ca

McRae, Elizabeth

From: Male, Sean
Sent: Friday, September 24, 2010 1:40 PM
To: 'dorothy.shaver@ontario.ca'
Cc: 'Tom Hockin'; Arnold, Kimberley; 334844; Collins, Anne (MNR)
Subject: Burk's Falls East Wetland Evaluation
Attachments: NRSI_1141_Burks falls_letter_final_Comp_sept_20_2010_CAP2.pdf

Hi Dorothy,

Please find attached the completed wetland evaluation for the Burk's Falls East project for your review. As the wetland evaluation concludes that this feature is not provincially significant, there is no EIS required on this feature.

A wetland evaluation is not required for the Burk's Falls West project as the project footprint is more than 120 m away from any wetland communities.

All documents associated with the NHA reports have now been provided and we look forward to receiving your comments on these reports.

Sincerely,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5280

Fax: +1 905 374 1157

4342 Queen Street, Suite 500, Niagara Falls, Ontario, Canada, L2E 7J7

September 20, 2010

Mr. Sean Male
Hatch
4342 Queen Street, Suite 500,
Niagara Falls, ON L2E 7J7

Dear Mr. Male:

Re: Burk's Falls Solar Project Wetland Evaluations

On behalf of Natural Resource Solutions Inc., I am pleased to provide the following which documents the work completed relative to wetland evaluation at the above noted solar project being proposed by Northland Power.

The objectives of this assignment were to provide project-specific assessments and possibly evaluations of wetlands found on or within 120m of proposed project components as per Renewable Energy Approval Regulation 359/09. Review of Land Information Ontario (LIO) and aerial photography indicated that potential unevaluated wetlands are located within the study site; it also indicated that no provincially significant wetlands are known within 800m of the study area. The analysis will focus on determining whether the unevaluated wetlands are provincially significant.

Study Approach

This work included the following:

- Collection and review of background information on wetland-related natural features in the vicinity of the project site.
- Identification of all wetlands, evaluated and non-evaluated, within approximately 750m of the subject wetlands to assess the extent of wetland mapping that would be required to address whether wetlands in the vicinity of the project site would be complexed with other wetlands (i.e. to identify whether a 'string' of unevaluated wetlands occur between the subject wetlands and the nearest evaluated wetland)
- Conduct field surveys of subject wetlands on the project site as well as on neighbouring lands. This included mapping of wetland vegetation communities based on Ontario Wetland Evaluation System (OWES) as well as Ecological Land Classification (ELC), and recording all species of flora and fauna within the wetlands.

The above tasks feed into a determination of whether the wetlands on or within 120m of the project site are of sufficient size or ecological/hydrologic character to be considered stand alone wetlands under OWES.

This letter report documents the analysis of the above.

Summary

A total of five wetlands were mapped including those that were found on the project site and within 120m. The wetlands were described under the OWES as well as using ELC criteria during field surveys completed on August 6, 2010. A map of the project site with wetlands in the area is appended to this letter. Copies of field data forms are also appended that summarize field information including weather and time of field surveys. No significant species of flora or fauna were observed during the field survey.

To the northeast of the project site, 1 wetland was identified, this wetland is shown as:

Wetland 1:

tsS₃ [ELC: Speckled Alder Mineral Deciduous Thicket Swamp Type (SWTM1-1)]
neM₃ [ELC: Mixed Mineral Meadow Marsh Ecosite (MAMM3)]

To the east of the project site, 2 wetlands were identified, these wetlands are shown as:

Wetland 2:

reM₄ [ELC: Cattail Mineral Shallow Marsh Type (MASM1-1)]

Wetland 3:

cS₂ [ELC: Maple Mineral Mixed Swamp Ecosite (SWMM2)]
neM₅ [ELC: Fowl Meadow Grass Graminoid Mineral Meadow Marsh Type (MAMM1-7)]
tsS₄ [ELC: Speckled Alder Mineral Deciduous Thicket Swamp Type (SWTM1-1)]

Within the project site, 2 wetlands were identified, these wetlands are shown as:

Wetland 4:

tsS₁ [ELC: Speckled Alder Mineral Deciduous Thicket Swamp Type (SWTM1-1)]
neM₂ [ELC: Mixed Mineral Meadow Marsh Ecosite (MAMM3)]

Wetland 5:

neM₁ [ELC: Mixed Mineral Meadow Marsh Ecosite (MAMM3)]

Based on our review of local drainage, it was concluded that it would be appropriate to evaluate these wetlands as a stand alone wetland complex. A completed wetland evaluation and associated mapping is also appended to this letter.

The results of the wetland evaluation indicate that this is a non-provincially significant wetland.

I trust that this information is adequate. Please contact me if you have any questions.

Yours sincerely,
Natural Resource Solutions Inc.



David Stephenson, M.Sc.,
Senior Biologist

Wetland Vegetation Communities:

Wetland 1:

tsS₃ [ELC: Speckled Alder Mineral Deciduous Thicket Swamp Type (SWTM1-1)]
*ts**: *Alnus incana* spp. *Rugosa*
ne: *Carex* sp., *Comarum palustre*, *Triadenum virginicum*

neM₃ [ELC: Mixed Mineral Meadow Marsh Ecosite (MAMM3)]
gc: *Impatiens capensis*, *Rubus occidentalis*, *Lycopus uniflorus*, *Eupatorium maculatum* ssp. *Maculatum*
*ne**: *Carex lupulina*, *Leersia oryzoides*, *Carex* sp.
re: *Scirpus atrovirens*, *Scirpus cyperinus*

Wetland 2:

reM₄ [ELC: Cattail Mineral Shallow Marsh Type (MASM1-1)]
ne: *Glyceria* sp.
*re**: *Typha latifolia*, *Schoenoplectus acutus*

Wetland 3:

cS₂ [ELC: Maple Mineral Mixed Swamp Ecosite (SWMM2)]
*c**: *Picea glauca*, *Larix laricina*, *Picea mariana*
gc: *Maianthemum canadense*, *Cornus Canadensis*, *Chamerion angustifolium* spp. *Angustifolium*, *Pteridium aquilinum* var. *latiusculum*

neM₅ [ELC: Fowl Meadow Grass Graminoid Mineral Meadow Marsh Type (MAMM1-7)]
ls: *Spiraea alba*
*ne**: *Glyceria striata*, *Carex crinita*, *Carex* sp.

tsS₄ [ELC: Speckled Alder Mineral Deciduous Thicket Swamp Type (SWTM1-1)]
*ts**: *Alnus incana* spp. *Rugosa*

Wetland 4:

tsS₁ [ELC: Speckled Alder Mineral Deciduous Thicket Swamp Type (SWTM1-1)]
*ts**: *Alnus incana* spp. *Rugosa*
gc: *Onoclea sensibilis*, *Euthamia graminifolia*, *Trifolium pratense*, *Impatiens capensis*, *Eupatorium maculatum* ssp. *Maculatum*

neM₂ [ELC: Mixed Mineral Meadow Marsh Ecosite (MAMM3)]
ls: *Spiraea alba*
*ne**: *Glyceria* sp., *Carex crinita*, *Carex lupulina*, *Equisetum pratense*, *Poa pratensis* ssp. *Pratensis*

Wetland 5:

neM₁ [ELC: Mixed Mineral Meadow Marsh Ecosite (MAMM3)]
gc: *Onoclea sensibilis*, *Equisetum arvense*, *Persicaria sagittata*, *Impatiens capensis*
*ne**: *Carex crinita*, *Carex lupulina*

* dominant form

Project Team:

Member	Qualifications	Role
David Stephenson, MSc	Certified Wetland Evaluator Certified ELC Certified Arborist	Project Management Field Survey Data Analysis, Evaluation, Reporting
Kevin Dance MSc.	Certified ELC	Field Survey, Data Analysis, Evaluation
Ken Burrell BES	Field Biologist	Field Survey
Cheryl-Anne Payette B.Sc FWT	Field Biologist	Data Analysis, Evaluation
Shawn MacDonald, B.A.	GIS Mapping	Mapping



Wetland Vegetation Communities

Project Name: Bark's Falls Project #: 1141

Observer(s): KSD, KGB

Date: Aug-6/10 Time (24h): 905

Field #: C Weather: Precipitation: 0 Temp (C): 19

Map Code: CS2 Wind Speed & Direction: R Cloud %: 15

Wetland Type: S Site Type: P Dominant Form: C

% Open Water: 8% ELC Code: SAMW2

Photos:

Forms % (Circle those >25%)	Species (dominant species, secondary species, present species)
<u>C</u>	<u>White spruce = Tamarack, black spruce</u>
<u>h</u>	<u>Trailing white birch, red maple</u>
<u>dc, dh, ds</u>	<u>Willow sp.</u>
<u>ts</u>	<u>Narrow leaved Madrusnet, blue pokokerry</u>
<u>is</u>	<u>Aster sp., Canada mayflower, bunchberry, tree-need water</u>
<u>gc</u>	<u>Sedge sp.</u>
<u>ne</u>	<u>Sedge sp.</u>
<u>be</u>	<u>break-leaved cattail</u>
<u>re</u>	
<u>ff</u>	
<u>f</u>	
<u>su</u>	
<u>m</u>	<u>grass sp.</u>

Rare Species (Local, Regional, Provincial):

Am. Wood

Wildlife Notes:

SAR observations must also include a specific UTM location.

Forms: h=deciduous trees; c=coniferous trees; dh, dc, ds=dead trees/shrubs; ts=tall shrubs; ls=low shrubs; gc=ground cover; ne=narrow emergents; be=broad emergents; f=floating plants; ff=free-floating plants; su=submerged plants; m=mosses

Wetland Type: S=swamp; M=marsh; B=bog; F=fen

Site Type: L=lacustrine; P=palustrine; R=riverine; IS=isolated



Wetland Vegetation Communities

Project Name: Bark's Falls Project #: 1141

Observer(s): KSD, KGB

Date: Aug 7/10 Time (24h): 830

Field #: D Weather: Precipitation: 0 Temp (C): 15cc

Map Code: tsS2 Wind Speed & Direction: 0 Cloud %: 40

Wetland Type: S Site Type: R Dominant Form: ts

% Open Water: 20% ELC Code: SATW1-1

Photos:

Forms % (Circle those >25%)	Species (dominant species, secondary species, present species)
<u>ts</u>	<u>Specled Alder</u>
<u>is</u>	<u>narrow leaved madrusnet</u>
<u>gc</u>	<u>grass sp., rough leaved seldinod,</u>
<u>ne</u>	<u>reed sp., marsh cinquefoil, marsh st. johnswort</u>
<u>be</u>	<u>giant burreed, water arrow</u>
<u>re</u>	<u>broad-leaved cattail, hard stemmed bulrush, grass weel grass</u>
<u>ff</u>	
<u>f</u>	
<u>su</u>	
<u>m</u>	

Rare Species (Local, Regional, Provincial):

Wildlife Notes:

SAR observations must also include a specific UTM location.

Forms: h=deciduous trees; c=coniferous trees; dh, dc, ds=dead trees/shrubs; ts=tall shrubs; ls=low shrubs; gc=ground cover; ne=narrow emergents; be=broad emergents; f=floating plants; ff=free-floating plants; su=submerged plants; m=mosses

Wetland Type: S=swamp; M=marsh; B=bog; F=fen

Site Type: L=lacustrine; P=palustrine; R=riverine; IS=isolated



NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Wetland Vegetation Communities

Project Name: Burk's Falls

Project #: 1141

Observer(s): KSD, KGB

Date: Aug. 7/10 Time (24h): 9/2

Field #: E Weather: Precipitation: _____ Temp (°C): _____

Map Code: NH₂ Wind Speed & Direction: _____ Cloud %: _____

Wetland Type: AN Site Type: R Dominant Form: ne

% Open Water: 10% ELC Code: WAPU3

Photos: _____

Forms % (Circle those >25%) Species (dominant species, secondary species, present species)

- h _____
- c _____
- dc, dh, ds _____
- ts Sprinkled Alder
- ls _____
- gc ground Black raspberry, northern bumbleweed Jac pine
- ne hop sedge rice cut grass sedge sp. r
- be broad leaved arrowweed
- re black bulrush, wool grass
- ff _____
- f pond weed sp.
- su _____
- m moss sp.

Rare Species (Local, Regional, Provincial):

Decid + K

Wildlife Notes:

COYE
AMRO
PCCH
leopard frog

SAR observations must also include a specific UTM location

Forms: h=deciduous trees; c=coniferous trees; dh, dc, ds=dead trees/shrubs; ts=tall shrubs; ls=low shrubs; gc=ground cover; ne=narrow emergents; be=broad emergents; ff=floating plants; f=free-floating plants; su=submerged plants; m=mosses

Wetland Type: S=swamp; M=marsh; B=bog; F=fen

Site Type: L=lacustrine; P=palustrine; R=riverine; IS=isolated

Mineral Wetland No. 514



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Wetland Vegetation Communities

Project Name: Burk's Falls

Project #: 1141

Observer(s): KSD, KGB

Date: Aug. 7/10 Time (24h): 9 38

Field #: F Weather: Precipitation: _____ Temp (°C): _____

Map Code: HCH4 Wind Speed & Direction: _____ Cloud %: _____

Wetland Type: N Site Type: R Dominant Form: re

% Open Water: 100 ELC Code: HASH1-1

Photos: _____

Forms % (Circle those >25%) Species (dominant species, secondary species, present species)

- h _____
- c _____
- dc, dh, ds _____
- ts _____
- ls _____
- gc _____
- ne grass
- be _____
- re broad-leaved cattail, hard stemmed bulrush
- ff _____
- f _____
- su _____
- m _____

Rare Species (Local, Regional, Provincial):

Wildlife Notes:

SAR observations must also include a specific UTM location.

Forms: h=deciduous trees; c=coniferous trees; dh, dc, ds=dead trees/shrubs; ts=tall shrubs; ls=low shrubs; gc=ground cover; ne=narrow emergents; be=broad emergents; ff=floating plants; f=free-floating plants; su=submerged plants; m=mosses

Wetland Type: S=swamp; M=marsh; B=bog; F=fen

Site Type: L=lacustrine; P=palustrine; R=riverine; IS=isolated



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Wetland Vegetation Communities

Project Name: *Buck's Falls Solar Park* Project #: *1141*

Observer(s): *KSD KGR*

Date: *Aug. 6/10* Time (24h): *9:15*

Field #: *1* Weather: Precipitation: *0* Temp (°C): *28°*

Map Code: *NEH* Wind Speed & Direction: *1* Cloud %: *70%*

Wetland Type: *H* Site Type: *P* Dominant Form: *NE*

% Open Water: *3%* ELC Code: *W4W3*

Photos:

Forms % (Circle those >25%) Species (dominant species, secondary species, present species)

h White Birch, Trembling Aspen

c White Spruce, Eastern White Cedar

dc, dh, ds E. W. Cedar

is grass sp.

is spotted Alder, willow sp.

gc sensitive fern, field horsetail, arrowleaved heartwort, spotted

ne Sedge sp. (found sedge, deep sedge)

re hard stemmed bulrush, wildgrass

ff

f

su

m

Rare Species (Local, Regional, Provincial):

→ separate coming from hills

Wildlife Notes: *Cabbage white BATS Common wood nymph*

SAR observations must also include a specific UTM location.

Forms: *h*=deciduous trees; *c*=coniferous trees; *dh, dc, ds*=dead trees/shrubs; *ts*=tall shrubs; *ls*=low shrubs; *gc*=ground cover; *ne*=narrow emergents; *be*=broad emergents; *f*=floating plants; *ff*=free-floating plants; *su*=submerged plants; *m*=mosses

Wetland Type: *S*=swamp; *M*=marsh; *B*=bog; *F*=fen

Site Type: *L*=lacustrine; *P*=palustrine; *R*=riverine; *IS*=isolated

Michael Matheson



NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Wetland Vegetation Communities

Project Name: *Buck's Falls Solar Park* Project #: *1141*

Observer(s): *KSD KGR*

Date: *Aug. 6/10* Time (24h): *9:15*

Field #: *2* Weather: Precipitation: *0* Temp (°C): *28°*

Map Code: *+SS1* Wind Speed & Direction: *1* Cloud %: *50*

Wetland Type: *S* Site Type: *R* Dominant Form: *TK*

% Open Water: *15%* ELC Code: *S4W1-1*

Photos:

Forms % (Circle those >25%) Species (dominant species, secondary species, present species)

h White Birch

c White Spruce

dc, dh, ds

(S) spotted Alder

gc sensitive fern, large leaved goldenrod, red clover, spotted

ne sedge sp.

re hard stemmed bulrush, woolgrass

ff

f

su

m

Rare Species (Local, Regional, Provincial):

Wildlife Notes: *brook trout in creek*

BCCH

SAR observations must also include a specific UTM location.

Forms: *h*=deciduous trees; *c*=coniferous trees; *dh, dc, ds*=dead trees/shrubs; *ts*=tall shrubs; *ls*=low shrubs; *gc*=ground cover; *ne*=narrow emergents; *be*=broad emergents; *f*=floating plants; *ff*=free-floating plants; *su*=submerged plants; *m*=mosses

Wetland Type: *S*=swamp; *M*=marsh; *B*=bog; *F*=fen

Site Type: *L*=lacustrine; *P*=palustrine; *R*=riverine; *IS*=isolated

Michael Matheson



NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Wetland Vegetation Communities

Project Name: Burke's Falls

Project #: 1141

Observer(s): KSD, KGB

Date: Aug 6/10 Time (24h): 1:5

Field #: 5 Weather: 0 Precipitation: 0 Temp (°C): 28+

Map Code: REN2 Wind Speed & Direction: 1 Cloud %: 40

Wetland Type: N Site Type: NE Dominant Form: NE

% Open Water: 0 ELC Code: HAWW3

Photos:

Forms % (Circle those >25%) Species (dominant species, secondary species, present species)

c white spruce + tamarak

dc, dh, ds

is speckled Alder

IS narrow leaved Manduruset

gc sensitive fern, ~~nut~~ jar up wood, rough leaved goldenrod

ne Aromatic sedge, large sedge, meadow horsetail, swamp sp. grass

be

re woolgrass

ff

f

su

m

Rare Species (Local, Regional, Provincial):

Wildlife Notes:

SAR observations must also include a specific UTM location.

Forms: h=deciduous trees; c=coniferous trees; dh, dc, ds=dead trees/shrubs; ts=tall shrubs; ls=low shrubs; gc=ground cover; ne=narrow emergents; be=broad emergents; f=floating plants; ff=free-floating plants; su=submerged plants; m=mosses

Wetland Type: S=swamp; M=marsh; B=bog; F=fen

Site Type: L=lacustrine; P=palustrine; R=riverine; IS=isolated

5/1/10



NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Wetland Vegetation Communities

Project Name:

Project #:

Observer(s):

Date: Time (24h):

Field #: Weather: Precipitation: Temp (°C):

Map Code: Wind Speed & Direction: Cloud %:

Wetland Type: Site Type: Dominant Form:

% Open Water: ELC Code:

Photos:

Forms % (Circle those >25%) Species (dominant species, secondary species, present species)

n

dc, dh, ds

is

is

gc

ne

be

re

ff

f

su

m

Rare Species (Local, Regional, Provincial):

Wildlife Notes:

SAR observations must also include a specific UTM location.

Forms: h=deciduous trees; c=coniferous trees; dh, dc, ds=dead trees/shrubs; ts=tall shrubs; ls=low shrubs; gc=ground cover; ne=narrow emergents; be=broad emergents; f=floating plants; ff=free-floating plants; su=submerged plants; m=mosses

Wetland Type: S=swamp; M=marsh; B=bog; F=fen

Site Type: L=lacustrine; P=palustrine; R=riverine; IS=isolated



NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Wetland Vegetation Communities

Project Name: Burk's Falls

Project #: 1141

Observer(s): KSD, KGR

Date: Aug 6/10 Time (24h): 8:30

Field #: A Weather: Precipitation: 0 Temp (°C): 19

Map Code: SS4 Wind Speed & Direction: 2 Cloud %: 15

Wetland Type: S Site Type: P Dominant Form: FS

% Open Water: None ELC Code: SWTH1

Photos:

Forms % (Circle those >25%) Species (dominant species, secondary species, present species)

h _____
c _____
dc, dh, ds _____
ts Speckled Alder
is _____
gc frail meadow grass, timothy, bractea fern, Belding's Minnow
ne fringed sedge, spotted, greenweed sedge sp.
be _____
re _____
ff _____
f _____
su _____
m _____

Rare Species (Local, Regional, Provincial): _____ Wildlife Notes: _____

SAR observations must also include a specific UTM location.

Forms: h=deciduous trees; c=coniferous trees; dh, dc, ds=dead trees/shrubs; ts=tall shrubs; ls=low shrubs; gc=ground cover; ne=narrow emergents; be=broad emergents; f=floating plants; ff=free-floating plants; su=submerged plants; m=mosses

Wetland Type: S=swamp; M=marsh; B=bog; F=fen

Site Type: L=lacustrine; P=palustrine; R=riverine; IS=isolated

Alder thickets



NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Wetland Vegetation Communities

Project Name: Burk's Falls

Project #: 1141

Observer(s): KSD, KGR

Date: Aug 6/10 Time (24h): 8:40

Field #: B Weather: Precipitation: 0 Temp (°C): 19

Map Code: NW5 Wind Speed & Direction: 2 Cloud %: 15

Wetland Type: M Site Type: P Dominant Form: NE

% Open Water: none ELC Code: WANH1-7

Photos:

Forms % (Circle those >25%) Species (dominant species, secondary species, present species)

h _____
c white grass
dc, dh, ds _____
ts Speckled Alder
is Narcissus in area, meadow
gc _____
ne fringed sedge, sedge sp. tall meadow grass
be _____
re broad-leaved cattail
ff _____
f _____
su _____
m _____

Rare Species (Local, Regional, Provincial): _____ Wildlife Notes: DOFL
TAVU
RCH
CORA

SAR observations must also include a specific UTM location.

Forms: h=deciduous trees; c=coniferous trees; dh, dc, ds=dead trees/shrubs; ts=tall shrubs; ls=low shrubs; gc=ground cover; ne=narrow emergents; be=broad emergents; f=floating plants; ff=free-floating plants; su=submerged plants; m=mosses

Wetland Type: S=swamp; M=marsh; B=bog; F=fen

Site Type: L=lacustrine; P=palustrine; R=riverine; IS=isolated

W.A. meadow

Wetland Evaluation

Burke's Falls

Wetland Evaluation Edition

1993

September 20, 2010

Comments

Attached Documents include:

- 1) Map of Burke's Falls Wetland Complex
- 2) Reasons for including wetlands less than 0.5 ha
- 3) List of vegetation communities in Burke's Falls Wetland Complex
- 4) Map of Interspersion for Burke's falls Wetland Complex
- 5) Natural Resources Solutions Field notes
- 6) Map of Burke's Falls Wetland Complex Catchment Basin
- 7) Map of Burke's Falls Wetland Interspersion

Additional Information

Official Name:	Burke's Falls		
Evaluation Edition:	1993	Class:	Wetland ID.:
Wetland Significance	Year/Month Last Evaluated	September 20, 2010	
Provincially Significant	Year/Month Last Updated		
Special Planning Considerations:			Scores
		Biological:	109
		Social:	50
		Hydrological:	172
		Special Features:	90
		Overall:	421
Submitted by:	Natural Resources Solutions Inc.		
Date:	September 20, 2010		

WETLAND DATA AND SCORING RECORD

- i) **WETLAND NAME:** Burke's Falls
- ii) **MNR ADMINISTRATIVE REGION:** Southern **DISTRICT:** Parry Sound
AREA OFFICE (if different from District): _____
- iii) **CONSERVATION AUTHORITY JURISDICTION:** _____
 (If not within a designated CA, check here: x)
- iv) **COUNTY OR REGIONAL MUNICIPALITY:** Municipality of Magnetawan
- v) **TOWNSHIP:** Township of Armour
- vi) **LOTS & CONCESSIONS:** Lot13con8, Lot14con6, Lot15con6, Lot16con6, Lot17con6, Lot18con6,
 (attach separate sheet if necessary) Lot18con7, Lot17con7, Lot18con8, Lot17con8, Lot16con8
- vii) **MAP AND AIR PHOTO REFERENCES**
- a) Latitude: 45 36 52 Longitude: 79 20 40
- b) UTM grid reference: Zone: 17t Block: PA
 Grid: E 62 90 64 N 50 52 570
- c) National Topographic Series:
 map name(s) Huntsville
 map number(s) 31E11 edition 4
 scale 1:50000
- d) Aerial photographs: Date photo taken: 2010 Scale: 1:50000
 Flight & plate numbers: n/a

 (attach separate sheet if necessary)
- e) Ontario Base Map numbers & scale 1017625050500 1:10000

 (attach separate sheets if necessary)

viii) WETLAND SIZE AND BOUNDARIES

a) Single contiguous wetland area: _____ hectares

b) Wetland complex comprised of 5 individual wetlands:

Wetland Unit Number (for reference)	Size of each wetland unit
Wetland Unit No. 1	<u>20.86</u> ha
Wetland Unit No. 2	<u>15.13</u> ha
Wetland Unit No. 3	<u>58.93</u> ha
Wetland Unit No. 4	<u>7.46</u> ha
Wetland Unit No. 5	<u>1.71</u> ha
Wetland Unit No. 6	_____ ha
Wetland Unit No. 7	_____ ha
Wetland Unit No. 8	_____ ha
Wetland Unit No. 9	_____ ha
Wetland Unit No. 10	_____ ha

(Attach additional sheets if necessary)

TOTAL WETLAND SIZE 89.63 ha

Brief documentation of reasons for including any areas less than 0.5 ha in size:

(Attach separate sheets if necessary.)

1.0 BIOLOGICAL COMPONENT

1.1 PRODUCTIVITY

1.1.1 GROWING DEGREE-DAYS/SOILS

<u>GROWING DEGREE DAYS</u>	<u>SOILS</u>
(check one)	Estimated Fractional Area
_____ <1600	<u>100</u> clay/loam
_____ 1600-2000	_____ silt/marl
_____ 2000-2400	_____ limestone
_____ 2400-2800	_____ sand
<u>✓</u> 2800-3000	_____ humic/mesic
_____ >3000	_____ fibric
	_____ granite

SCORING:

Growing Degree Days	Clay/Loam	Silt/Marl	Limestone	Sand	Humic/Mesic	Fibric	Granite
<1600	12	11	9	7	7	6	4
1600-2000	15	13	11	9	8	7	5
2000-2400	18	15	13	11	9	8	7
2400-2800	22	18	15	13	11	9	7
2800-3000	26	21	18	15	13	10	8
>3000	30	25	20	18	15	12	9

(maximum score 30; if wetland contains more than one soil type, evaluate based on the fractional area)

Steps required for evaluation: (maximum score 30 points)

1. Select GDD line in evaluation table applicable to your wetland;
2. Determine % of area of the wetland for each soil type;
3. Multiply fractional area of each soil type by score;
3. Sum individual soil type scores (round to nearest whole number).

In wetland complexes the evaluator should aim at determining the percentage of area occupied by the categories for the complex as a whole.

Growing Degree Days/Soils Score (maximum 30 points) 26

1.1.2 WETLAND TYPE (Fractional Area = area of wetland type/ total wetland area)

Fractional Area Score

Bog	_____	x 3 =	_____
Fen	_____	x 6 =	_____
Swamp	<u>0.7827</u>	x 8 =	<u>6.26</u>
Marsh	<u>0.2173</u>	x 15 =	<u>3.26</u>

Wetland Type Score (maximum 15 points) 9.5

1.1.3 SITE TYPE (Fractional Area = area of site type/ total wetland area)

Fractional Area Score

isolated	_____	x 1 =	_____
palustrine (permanent or intermittent flow)	<u>0.6133</u>	x 2 =	<u>1.227</u>
riverine	<u>0.3867</u>	x 4 =	<u>1.547</u>
riverine (at rivermouth)	_____	x 5 =	_____
lacustrine (at rivermouth)	_____	x 5 =	_____
lacustrine (on enclosed bay, with barrier beach)	_____	x 3 =	_____
lacustrine (exposed to lake)	_____	x 2 =	_____

Site Type Score (maximum 5 points) 3

1.2 BIODIVERSITY

1.2.1 NUMBER OF WETLAND TYPES

(Check one)	Score (Choose one only)
_____ one	9 points
<u>✓</u> two	13
_____ three	20
_____ four	30

Number of Wetland Types Score (Maximum 30 points) 13

1.2.2 VEGETATION COMMUNITIES

Attach a separate sheet listing community (map) codes, vegetation forms and dominant species. Use the form on the following page to record percent area by dominant vegetation form. This information will be used in other parts of the evaluation.

Communities should be grouped by number of forms. For example, 2 form communities might appear as follows:

2 forms

<u>Code</u>	<u>Forms</u>	<u>Dominant Species</u>
M6	re, ff	re, <i>Typha latifolia</i> ; ff, <i>Lemna minor</i> , <i>Wolffia</i>
S1	ts, gc	ts, <i>Salix discolor</i> ; gc, <i>Impatiens capensis</i> , <i>Thelypteris palustris</i>

Note that the dominant species for each form are separated by a semicolon. The dominant species (maximum of 2) within a form are separated by commas.

Scoring:

Total # of communities with 1-3 forms	Total # of communities with 4-5 forms	Total # of communities with 6 or more forms
1 = 1.5 points	1 = 2 points	1 = 3 points
2 = 2.5	2 = 3.5	2 = 5
3 = 3.5	3 = 5	3 = 7
4 = 4.5	4 = 6.5	4 = 9
5 = 5	5 = 7.5	5 = 10.5
6 = 5.5	6 = 8.5	6 = 12
7 = 6	7 = 9.5	7 = 13.5
8 = 6.5	8 = 10.5	8 = 15
9 = 7	9 = 11.5	9 = 16.5
10 = 7.5	10 = 12.5	10 = 18
11 = 8	11 = 13	11 = 19
+0.5 each additional community = <u>7</u>	+0.5 each additional community = _____	+1 each additional community = _____

e.g., a wetland with 3 one form communities, 4 two form communities, 12 four form communities and 8 six form communities would score:

$$6 + 13.5 + 15 = 34.5 = 35 \text{ points}$$

Vegetation Communities Score (maximum 45 points) 7

Wetland Name: Bucke's Falls

Wetland Size (ha): 89.63 ha

<u>Vegetation Form</u>	<u>% area in which form is dominant</u>
h	<u>—</u>
c	<u>57.22</u>
dh	<u>0</u>
dc	<u>0</u>
ts	<u>21.04</u>
ls	<u>0.51</u>
ds	<u>0</u>
gc	<u>0</u>
m	<u>0</u>
ne	<u>20.48</u>
be	<u>0</u>
re	<u>0.75</u>
ff	<u>0</u>
r	<u>0</u>
su	<u>0</u>
u (unvegetated)	<u>0</u>
Total = 100%	

1.2.3 DIVERSITY OF SURROUNDING HABITAT

(Check all appropriate items)

- | | |
|-------------------------------------|---|
| <input type="checkbox"/> | recent burn (< 5yr) |
| <input type="checkbox"/> | abandoned agricultural land |
| <input type="checkbox"/> | utility corridor |
| <input checked="" type="checkbox"/> | deciduous forest |
| <input type="checkbox"/> | recent cutover or clearcut (<5 yr) |
| <input checked="" type="checkbox"/> | coniferous forest |
| <input type="checkbox"/> | mixed forest (at least 25% conifer and 75% deciduous or vice versa) |
| <input type="checkbox"/> | crops |
| <input type="checkbox"/> | abandoned pits or quarries |
| <input checked="" type="checkbox"/> | pasture |
| <input type="checkbox"/> | ravine |
| <input type="checkbox"/> | fence rows |
| <input checked="" type="checkbox"/> | open lake or deep river |
| <input checked="" type="checkbox"/> | creek floodplain |
| <input type="checkbox"/> | rock outcrop |

Diversity of Surrounding Habitat Score (1 for each, maximum 7 points) 5**1.2.4 PROXIMITY TO OTHER WETLANDS**

(Check first appropriate category only)

Scoring

- | | | |
|-----------------------------|---|----------|
| 1) <u>8</u> | Hydrologically connected by surface water to other wetlands (different dominant wetland type), or open lake or river within 1.5 km | 8 points |
| 2) <input type="checkbox"/> | Hydrologically connected by surface water to other wetlands (same dominant wetland type) within 0.5 km | 8 |
| 3) <input type="checkbox"/> | Hydrologically connected by surface water to other wetlands (different dominant wetland type), or open lake or river from 1.5 to 4 km away | 5 |
| 4) <input type="checkbox"/> | Hydrologically connected by surface water to other wetlands (same dominant wetland type) from 0.5 to 1.5 km away | 5 |
| 5) <input type="checkbox"/> | Within 0.75 km of other wetlands (different dominant wetland type) or open lake or river, but not hydrologically connected by surface water | 5 |
| 6) <input type="checkbox"/> | Within 1 km of other wetlands, but not hydrologically connected by surface water | 2 |
| 7) <input type="checkbox"/> | No wetland within 1 km | 0 |

Proximity to other Wetlands Score (Choose one only, maximum 8 points) 8

1.2.5 INTERSPERSION

Number of Intersections (check one)		Score
1) 26 or less	_	3 points
2) 27 to 40	_____	6
3) 41 to 60	_____	9
4) 61 to 80	<u>60</u> _____	12
5) 81 to 100	_____	15
6) 101 to 125	_____	18
7) 126 to 150	_____	21
8) 151 to 175	_____	24
9) 176 to 200	_____	27
10) >200	_____	30

Interspersion Score (Choose one only, maximum 30 points) 12

1.2.6 OPEN WATER TYPES

Permanently flooded:		Score
(Check one)		
1) _____	no open water	0 points
2) _____	type 1	8
3) _____	type 2	8
4) <input checked="" type="checkbox"/> _____	type 3	14
5) _____	type 4	20
6) _____	type 5	30
7) _____	type 6	8
8) _____	type 7	14
9) _____	type 8	3

Open Water Score (Choose one only, maximum 30 points) 14

1.3 SIZE

Biodiversity Subcomponent

89.63 hectares

59

Size Score (Biological Component) (maximum 50 points) 11

Table 2. Evaluation Table for Size Score (Biological Component)

Wetland size (ha)	Total Score for Biodiversity Subcomponent									
	<37	37-47	48-60	61-72	73-84	85-96	97-108	109-120	121-132	>132
<20 ha	1	5	7	8	9	17	25	34	43	50
20-40	5	7	8	9	10	19	28	37	46	50
41-60	6	8	9	10	11	21	31	40	49	50
61-80	7	9	10	11	13	23	34	43	50	50
81-100	8	10	11	13	15	25	37	46	50	50
101-120	9	11	13	15	18	28	40	49	50	50
121-140	10	13	15	17	21	31	43	50	50	50
141-160	11	15	17	19	23	34	46	50	50	50
161-180	13	17	19	21	25	37	49	50	50	50
181-200	15	19	21	23	28	40	50	50	50	50
201-400	17	21	23	25	31	43	50	50	50	50
401-600	19	23	25	28	34	46	50	50	50	50
601-800	21	25	28	31	37	49	50	50	50	50
801-1000	23	28	31	34	40	50	50	50	50	50
1001-1200	25	31	34	37	43	50	50	50	50	50
1201-1400	28	34	37	40	46	50	50	50	50	50
1401-1600	31	37	40	43	49	50	50	50	50	50
1601-1800	34	40	43	46	50	50	50	50	50	50
1801-2000	37	43	47	49	50	50	50	50	50	50
>2000	40	46	50	50	50	50	50	50	50	50

2.0 SOCIAL COMPONENT

2.1 ECONOMICALLY VALUABLE PRODUCTS

2.1.1 WOOD PRODUCTS

Area of wetland forested (ha); not wetland size

1) _____ =	<5 ha	Score 0 points
2) _____ =	5 - 25 ha	4
3) _____ =	26 - 50 ha	6
4) <u>51, 29</u> =	51 - 100 ha	8
5) _____ =	101 - 200 ha	11
6) _____ =	>200 ha	14

Source of information: Field observations

Wood Products Score (Score one only, maximum 14 points) 8

2.1.2 LOWBUSH CRANBERRY

(Check one)		Score (Choose one)
present	1) _____	2 points
absent	2) <u>X</u>	0

Source of information: Field observations

Lowbush Cranberry Score (maximum 2 points) 0

2.1.3 WILD RICE

(Check one)		Score (Choose one)
present (at least 0.5 ha)	1) _____	10 points
absent	2) <u>X</u>	0

Source of information: Field observations

Wild Rice Score (maximum 10 points) 0

2.1.4 COMMERCIAL FISH (BAIT FISH AND/OR COARSE FISH)

present 1) x Score (Choose one) 12 points
 absent 2) 0

Source of information: Field observations

Commercial Fish Score (maximum 12 points) 12

2.1.5 FURBEARERS

(Consult Appendix 9)

	<u>Name of furbearer</u>	<u>Source of information</u>
1)	<u>Beaver</u>	<u>Field observations</u>
2)	<u> </u>	<u> </u>
3)	<u> </u>	<u> </u>
4)	<u> </u>	<u> </u>
5)	<u> </u>	<u> </u>

Scoring: 3 points for each species, maximum 12

Furbearer Score (maximum 12 points) 3

2.2 RECREATIONAL ACTIVITIES

<u>Type of Wetland-Associated Use</u>			
<u>Intensity of Use</u>	<u>Hunting</u>	<u>Nature Enjoyment/ Ecosystem Study</u>	<u>Fishing</u>
High	40 points	40 points	40 points
Moderate	20	20	20
Low	8	8	8
Not Possible	0 ✓	0 ✓	0 ✓

(score one level for each of the three wetland uses; scores are cumulative; maximum score 80 points)

Sources of information:
 hunting: private property
 nature: private property
 fishing: private property

Recreational Activities Score (maximum 80 points) 0

2.3 LANDSCAPE AESTHETICS

2.3.1 DISTINCTNESS

- | | | |
|------------------|-------------|--------------------|
| (Check one) | | Score (Choose one) |
| Clearly distinct | 1) <u>3</u> | 3 points |
| Indistinct | 2) _____ | 0 |

Landscape Distinctness Score (maximum 3 points) 3

2.3.2 ABSENCE OF HUMAN DISTURBANCE

- | | | |
|--|-------------|--------------------|
| (Check one) | | Score (Choose one) |
| Human disturbances absent or nearly so | 1) _____ | 7 points |
| One or several localized disturbances | 2) <u>4</u> | 4 |
| Moderate disturbance; localized water pollution | 3) _____ | 2 |
| Wetland intact but impairment of ecosystem quality intense in some areas | 4) _____ | 1 |
| Extreme ecological degradation, or water pollution severe and widespread | 5) _____ | 0 |

Source of information: field observations

Absence of Human Disturbance Score (maximum 7 points) 4

2.4 EDUCATION AND PUBLIC AWARENESS

2.4.1 EDUCATIONAL USES

- | | | |
|-------------|-------------|--------------------|
| (Check one) | | Score (Choose one) |
| Frequent | 1) _____ | 20 points |
| Infrequent | 2) _____ | 12 |
| No visits | 3) <u>✓</u> | 0 |

Source of information: landowner contact

Educational Uses Score (maximum 20 points) 0

2.4.2 FACILITIES AND PROGRAMS

- | | |
|--|--------------------|
| Staffed interpretation centre with shelters, trails, literature | Score (choose one) |
| | = 8 points |
| No interpretation centre or staff, but a system of self-guiding trails and observation points or brochures available. | = 4 |
| Facilities such as maintained paths (e.g., wood chips) boardwalks, boat launches, or observation towers but no brochures or other interpretation | = 2 |
| No facilities or programs | = <u>0</u> |

Source of information: Field observations - landowner contact

Facilities and Programs Score (maximum 8 points) 0

2.4.3 RESEARCH AND STUDIES

(check appropriate spaces)

- | | | |
|--|--|--------------------|
| Long term research has been done | 1) _____ | Score
12 points |
| Research papers published in refereed scientific journal or as a thesis | 2) _____ | 10 |
| One or more (non-research) reports have been written on some aspect of the wetland's flora, fauna, hydrology, etc. | 3) _____ | 5 |
| No reports known | 4) <input checked="" type="checkbox"/> | 0 |

Attach list of known reports by above categories

Research and Studies Score (Score is cumulative, maximum 12 points) 0

2.5 PROXIMITY TO AREAS OF HUMAN SETTLEMENT

Circle the highest scoring category applicable

Distance of wetland from settlement	population >10,000	population 2,500 - 10,000	population <2,500 or cottage community <u>940</u>
Within or adjoining settlement	40 points	26	16
0.5 to 10 km from settlement	26	16	<u>10</u>
10 to 60 km from settlement	12	8	4
>60 km from settlement	5	2	0
>100 km from settlement	0	0	0

Name of settlement: village of Burk's falls

Proximity to Human Settlement Score (maximum 40 points) 10

2.6 OWNERSHIP (FA – fractional area)

Wetland in public or private ownership, held under contract or in trust for wetland protection

Fractional Area
_____ x 10 = _____

Wetland in public ownership, not as above

_____ x 8 = _____

Wetland in private ownership, not as above

1.0 x 4 = 4

Source of information: landowner contact

Ownership Score (maximum 10 points) 4

2.7 **SIZE** (See size table -- Social Component)89,63 hectaresSubtotal for Social 41 -Size Score (Social Component) (maximum 20 points) 9

Table 3. Evaluation Table for Size Score (Social Component)

Wetland size (ha)	Total for Size Dependent Score									
	<30	31-45	46-60	61-75	76-90	91-105	106-120	121-135	136-150	>150
2-4	1	2	4	8	12	13	14	14	15	16
5-8	2	2	5	9	13	14	15	15	16	16
9-12	3	3	6	10	14	15	15	16	17	17
13-17	3	4	7	10	14	15	16	16	17	17
18-28	4	5	8	11	15	16	16	17	17	18
29-37	5	7	10	13	16	17	18	18	19	19
38-49	5	7	10	13	16	17	18	18	19	20
50-62	5	8	11	14	17	17	18	19	20	20
63-81	5	8	11	15	17	18	19	20	20	20
82-105	6	9	11	15	18	18	19	20	20	20
106-137	6	9	12	16	18	19	20	20	20	20
138-178	6	9	13	16	18	19	20	20	20	20
179-233	6	9	13	16	18	20	20	20	20	20
234-302	7	9	13	16	18	20	20	20	20	20
303-393	7	9	14	17	18	20	20	20	20	20
394-511	7	10	14	17	18	20	20	20	20	20
512-665	7	10	14	17	18	20	20	20	20	20
666-863	7	10	14	17	19	20	20	20	20	20
864-1123	8	12	15	17	19	20	20	20	20	20
1124-1460	8	12	15	17	19	20	20	20	20	20
1461-1898	8	13	15	18	19	20	20	20	20	20
1899-2467	8	14	16	18	20	20	20	20	20	20
>2467	8	14	16	18	20	20	20	20	20	20

2.8 ABORIGINAL AND CULTURAL VALUES

Either or both Aboriginal or Cultural Values may be scored. However, the maximum score permitted for 2.8 is 30 points.

2.8.1 ABORIGINAL VALUES

Full documentation of sources must be attached to the data record.

<u> </u>	Significant	-	30 points
<u> </u>	Not Significant	-	0
<u> 0 </u>	Unknown	-	0

2.8.2 CULTURAL HERITAGE

<u> </u>	Significant	=	30 points
<u> </u>	Not Significant	=	0
<u> 0 </u>	Unknown	=	0

Aboriginal Values/Cultural Heritage Score (maximum 30 points) 0

3.0 HYDROLOGICAL COMPONENT**3.1 FLOOD ATTENUATION**

If the wetland is a complex including isolated wetlands, apportion the 100 points according to area. For example, if 10 ha of a 100 ha complex is isolated, the isolated portion receives the maximum proportional score of 10. The remainder of the wetland is then evaluated out of the remaining 90 points.

Step 1.

If wetland is entirely Isolated, go directly to Step 5.

If wetland is lacustrine and the ratio of wetland area:lake area is <0.1 , or wetland is riverine on the St. Mary's River, go to Step 5.

All other wetlands, go through steps 2, 3, 4 and 5.

Step 2.**Determination of Upstream Detention Factor (DF)**

(a)	Wetland area (ha)	<u>89.63</u>	
(b)	Total area (ha) of <u>upstream</u> detention areas (include the wetland itself)	<u>89.63</u>	
(c)	Ratio of (a):(b)	<u>1</u>	
(d)	Upstream detention factor: (c) x 2 = <u>2</u> (Maximum allowable factor = 1)	<u>1</u>	

Step 3.**Determination of Peak Flow Attenuation Factor (AF)**

(a)	Wetland area (ha)	<u>89.63</u>	
(b)	Size of catchment basin (ha) <u>upstream</u> of wetland (include wetland itself in catchment area)	<u>89.63</u>	
(c)	Ratio of (a):(b)	<u>1</u>	
(d)	Wetland attenuation factor: (c) x 10 = <u>10</u> (Maximum allowable factor = 1)	<u>1</u>	

Step 4.**Determination of Wetland Surface Form Factor (FF)**

From the list below, select the surface form which best describes the wetland.

	Factor	
Flooded with little or no aquatic vegetation	<u> </u>	0
Flooded but with submergent, emergent or floating vegetation	<u> ✓ </u>	0.2
Flat (lawn) vegetation (typical of fens)	<u> </u>	0.5
Hummock-depression microtopography	<u> </u>	0.7
Patterned (e.g., string bog, ribbed fen)	<u> </u>	1.0

Surface Form Factor (FF) 0.2

(Maximum allowable factor = 1)

Step 5. Calculation of Final Score

- 1. Wetland is entirely Isolated 100 points
- 2. Wetland is lacustrine and the ratio of wetland area:lake area is <0.1 0 points
- 3. Wetland is riverine along the St. Mary's River 0 points
- 4. For all other wetlands*, calculate as follows:
 - (a) Upstream Detention Factor (DF) (Step2) $\frac{1}{1}$
 - (b) Wetland Attenuation Factor (AF) (Step 3) $\frac{1}{1}$
 - (c) Surface Form Factor (FF) (Step 4) 0.2

$[(DF + AF + FF)/3] \times 100^*$ 76.67

* Unless wetland is a complex including isolated portions – see above

Total Flood Attenuation Score (maximum 100 points) 77

3.2 GROUND WATER RECHARGE

3.2.1 SITE TYPE

- (a) Wetland > 50% lacustrine (by area) or located on the St. Mary's River Score = 0
- (b) Wetland not as above. Calculate final score as follows:
(FA – area of site type/total area of wetland)

$\frac{0.61}{0.39} \frac{0}{0}$ FA of isolated or palustrine wetland x 20 = 12.2
 FA of riverine wetland x 5 = 1.95
 FA of lacustrine wetland (wetland <50% lacustrine) x 0 = 0

Site Type Score: (maximum 20 points) 14

3.2.2 SOILS

EVALUATION:

Dominant Wetland Type	Sand, loam, gravel, till	Clay, bedrock
Lacustrine or on St. Mary's River	0	0
Isolated	10	5
Palustrine	<u>7</u>	4
Riverine (not on St. Mary's River)	5	2

Hydrological Soil Class Score (maximum 10 points) 7

3.3 DOWNSTREAM WATER QUALITY IMPROVEMENT**3.3.1 WATERSHED IMPROVEMENT FACTOR**

Calculation of Watershed Improvement Score is based upon the fractional area (FA) of each site type within the wetland. FA – area of site type/total area of the wetland

Site Type	Improvement Factor (IF)
Isolated	FA _____ x 0.5 = _____
Riverine	FA <u>0.39</u> x 1.0 = <u>0.39</u>
Palustrine with no inflow	FA _____ x 0.7 = _____
Palustrine with inflows	FA <u>0.61</u> x 1.0 = <u>0.61</u>
Lacustrine on lake shoreline	FA _____ x 0.2 = _____
Lacustrine at lake inflow or outflow	FA _____ x 1.0 = _____
Watershed Improvement Score (IF x 30) (maximum = 30) <u>30</u>	

3.3.2 ADJACENT AND WATERSHED LAND USE EVALUATION:**Step 1. Determination of Maximum Initial Score**

- _____ Wetland on the Great Lakes or St. Mary's River (Go to Step 5a)
- All other wetlands (Go through steps 2, 3, 4, and 5b)

Step 2. Determination of Broad Upslope Land Use (BLU)

Assess broad upslope land uses as logging within the previous 5 years, agriculture, or other activities which alter the natural vegetation cover in an extensive manner.

Choose one	Score
> 50% of catchment basin	20
20-50% of catchment basin	14
< 20% of catchment basin	4
Score for BLU <u>4</u>	

Step 3. Determination of Linear Upslope Land Uses (LUU)

Assess linear upslope uses (LUU) e.g., roads, railways, hydro corridors, pipelines, etc., crossing the upslope catchment within 200 m of the wetland boundary.

Choose the highest only	Score
Major corridor	15
Secondary corridor	<u>11</u>
Tertiary corridor	6
Temporary or abandoned	3
None	0
Score for LUU <u>11</u> points	

¹ Major, secondary and tertiary roads are those that are indicated as such on the provincial highways map. Major hydro corridors are trunk lines coming directly from a generating station. Major pipelines are trans-continental lines. Secondary corridors are regional distribution lines (i.e. multi-cable hydro corridors not emanating directly from a generating station or regional gas distribution lines). Tertiary corridors are single hydro lines or local gas distribution lines (i.e. to domestic users).

Step 4. Determination of Point-source Land Uses (PS)

Assess point source (PS) land uses producing industrial effluents such as heavy industry, pulp and paper plants, major aggregate operations (but not small pits use for local road construction), etc. Score as 'present' only if a point source land use is located less than 1 km upstream from the wetland.

	Score
Present	15
Not present	(0)

Score for PS 0

Step 5. Calculation of total score for Adjacent and Watershed Land Use

	Score
a) Wetland on the Great Lakes or St. Mary's River	0
b) All other wetlands, calculate as follows:	

Final Score BLU + LUU + PS 15

3.3.3 VEGETATION FORM

Choose the category that best describes the vegetation of the wetland

	Score
Trees, shrubs or herbs (h, c, ts, ls, gc) <u> X </u>	8 points
Emergents, submergents (ne, re, be, f, ff, su) <u> </u>	10
Little or no vegetation (u) <u> </u>	0

Dominant Vegetation Form Score (maximum 10 points) 8

3.4 CARBON SINK

Choose the category that best describes the wetland.

1) Wetland a bog or fen with > 50% organic soils	15 points
2) Wetland has organic soils occupying 10 to 50% of the area (i.e. mainly mineral or undesignated soils, any wetland type)	6
3) Marshes and swamps with >50% organic soil	9
4) Wetland with less than 10% or soils organic	(0)

Carbon Sink Score (maximum 15 points) 0

3.5 SHORELINE EROSION CONTROL

From the wetland vegetation map determine the dominant vegetation type within the erosion zone for lacustrine and riverine site type areas only. Score according to the factors listed below.

- Step 1.
- | | | | |
|----------|---|-------|---|
| _____ | Wetland entirely isolated or palustrine | Score | 0 |
| <u>X</u> | Any part of the wetland riverine, or lacustrine (proceed to Step 2) | | |

Step 2. Choose the one characteristic that best describes the shoreline vegetation.
(See text for the definition of shoreline.)

- | | | | |
|----------|----------------------------|-------|----|
| _____ | Trees and shrubs | Score | 15 |
| <u>X</u> | Emergent vegetation | 8 | |
| _____ | Submergent vegetation | 6 | |
| _____ | Other shoreline vegetation | 3 | |
| _____ | No vegetation | 0 | |

Shoreline Erosion Control Score (maximum 15 points) 8

3.6 GROUNDWATER DISCHARGE

(Circle the characteristics that best describe the wetland being evaluated and sum the scores.)

Category	Catchment interaction			
Wetland type	Bog - 0	Swamp/Marsh - 2 <u>X</u>	Fen - 5	2
Basin topography	Flat/Rolling = 0	Hilly = 2 <u>X</u>	Major relief break = 5	2
Wetland area:Upslope catchment area	Large (>50%) = 0 <u>X</u>	Moderate (6 - 50%) - 2	Small (<5%) - 5	0
Lagg development	None found - 0 <u>X</u>	Minor - 2	Extensive = 5	0
Seeps at wetland edge	None found - 0	1 to 3 seeps - 5 <u>X</u>	4 or more seeps = 10	5
Iron precipitates evident at edge	None = 0 <u>X</u>	1-3 deposits = 2	4 or more deposits = 5	0
Surface marl deposits	None = 0 <u>X</u>	1-3 deposits - 2	> 3 - 5	0
Wetland pH	Low < 4.2 - 0 <u>X</u>	Moderate 4.2-5.7 = 5	High >5.7 = 10	0
Catchment soil coverage	Patchy = 0	Thin (<20 cm) - 2 <u>X</u>	Thick = 5	2
Catchment soil permeability	Low - 0	Moderate = 2 <u>X</u>	High = 5	2

(Scores are cumulative, maximum score 30 points)

Groundwater Discharge Score (maximum 30 points) 13

4.0 SPECIAL FEATURES COMPONENT**4.1 RARITY****4.1.1 WETLANDS**Hills Site Region and Site District (5E only): 5E-8

Wetland type (check one or more)

Bog
 Fen
 Swamp
 Marsh

Evaluation Table for Scoring Rarity of Wetland Type.

Unit Number	Site Region & District	Marsh	Swamp	Fen	Bog
2E	James Bay	20	20	0	20
2W	Big Trout Lake	20	20	0	10
3E	Lake Abitibi	20	20	10	0
3W	Lake Nipigon	20	20	10	0
3S	Lake St. Joseph	20	20	10	0
4E	Lake Temagami	20	20	10	0
4W	Pigeon River	20	10	20	0
4S	Wabigoon Lake	20	10	20	0
5E-1	Thessalon	10	0	30	20
5E-2	Gore Bay	20	0	20	20
5E-3	La Cloche	20	0	30	20
5E-4	Sudbury	10	0	30	10
5E-5	North Bay	10	0	20	0
5E-6	Tomiko	10	0	20	0
5E-7	Parry Sound	20	0	30	20
5E-8	Huntsville	20	0	30	20
5E-9	Algonquin Park	10	0	30	0
5E-10	Brent	20	0	30	0
5E-11	Bancroft	0	10	30	10
5E-12	Renfrew	0	0	30	10
5-S	Lake of the Woods	10	10	20	10

Rarity of Wetland Type Score (Maximum 70 points) 20

4.1.2 SPECIES

4.1.2.1 BREEDING HABITAT FOR AN ENDANGERED OR THREATENED SPECIES

Name of species	Source of information
1) _____	<u>Field observations</u>
2) _____	_____
3) _____	_____

Attach documentation

Scoring

For one species	250 points
For each additional species	250

(Score is cumulative, no maximum score)

Breeding Habitat for Endangered or Threatened Species Score (no maximum)_____

4.1.2.2 TRADITIONAL MIGRATION OR FEEDING HABITAT FOR AN ENDANGERED OR THREATENED SPECIES

Name of species	Source of information
1) _____	<u>Field observations</u>
2) _____	_____
3) _____	_____

Attach documentation

Scoring

For one species	150 points
For each additional species	75

(Score is cumulative, no maximum score)

Traditional Habitat for Endangered or Threatened Species Score (no maximum)_____

4.1.2.3 PROVINCIALY SIGNIFICANT ANIMAL SPECIES

Name of species	Source of information
1) _____	<u>Field observations</u>
2) _____	_____
3) _____	_____
4) _____	_____
5) _____	_____

Attach separate list if necessary. Attach documentation.

Scoring

Number of provincially significant animal species in the wetland:

One species	=	50 points	14 species	=	154
2 species	=	80	15 species	=	156
3 species	=	95	16 species	=	158
4 species	=	105	17 species	=	160
5 species	=	115	18 species	=	162
6 species	=	125	19 species	=	164
7 species	=	130	20 species	=	166
8 species	=	135	21 species	=	168
9 species	=	140	22 species	=	170
10 species	=	143	23 species	=	172
11 species	=	146	24 species	=	174
12 species	=	149	25 species	=	176
13 species	=	152			

Add one point for every species past 25 (for example, 26 species = 177 points, 27 species – 178 points etc.)

(no maximum score)

Provincially Significant Animal Species Score (no maximum) 0

4.1.2.4 PROVINCIALY SIGNIFICANT PLANT SPECIES

(Scientific names must be recorded)

Common Name	Scientific Name	Source of information
1) _____	_____	Field observations
2) _____	_____	_____
3) _____	_____	_____
4) _____	_____	_____
5) _____	_____	_____

Attach separate list if necessary. Attach documentation.

Scoring

Number of provincially significant plant species in the wetland:

One species	=	50 points	14 species	=	154
2 species	=	80	15 species	=	156
3 species	=	95	16 species	=	158
4 species	=	105	17 species	=	160
5 species	=	115	18 species	=	162
6 species	=	125	19 species	=	164
7 species	=	130	20 species	=	166
8 species	=	135	21 species	=	168
9 species	=	140	22 species	=	170
10 species	=	143	23 species	=	172
11 species	=	146	24 species	=	174
12 species	=	149	25 species	=	176
13 species	=	152			

Add one point for every species past 25 (for example, 26 species = 177 points, 27 species = 178 points etc.)

Provincially Significant Plant Species Score (no maximum) ()

4.1.2.5 REGIONALLY SIGNIFICANT SPECIES (SITE REGION)

Scientific names must be recorded for plant species. **Lists of significant species to be scored must be approved by MNR.**

SIGNIFICANT IN SITE REGION:

Common Name	Scientific Name	Source of information
1) _____	_____	Field observations
2) _____	_____	_____
3) _____	_____	_____
4) _____	_____	_____
5) _____	_____	_____
6) _____	_____	_____
7) _____	_____	_____
8) _____	_____	_____

Attach separate list if necessary; Attach documentation

** Score only if there is an approved list.

Scoring

No. of species significant in Site Region

One species = 20	6 species = 55
2 species = 30	7 species = 58
3 species = 40	8 species = 61
4 species = 45	9 species = 64
5 species = 50	10 species = 67

Add one point for every species past 10. (No maximum score)

Significant Species (Site Region) Score (no maximum) 0

4.2.1.6 LOCALLY SIGNIFICANT SPECIES (SITE DISTRICT)

Scientific names must be recorded for plant species. **Lists of significant species to be scored must be approved by MNR.**

Common Name	Scientific Name	Source of information
1) _____	_____	field observations
2) _____	_____	_____
3) _____	_____	_____
4) _____	_____	_____
5) _____	_____	_____
6) _____	_____	_____
7) _____	_____	_____
8) _____	_____	_____
9) _____	_____	_____
10) _____	_____	_____

Attach separate list if necessary; Attach documentation.

Scoring

No. of species significant in Site District

One species = 10	6 species = 41
2 species = 17	7 species = 43
3 species = 24	8 species = 45
4 species = 31	9 species = 47
5 species = 38	10 species = 49

For each significant species over 10 in the wetland, add 1 point.

Locally Significant Species (Site District) Score (no maximum) 0

4.1.2.7 SPECIES OF SPECIAL STATUS

Black Duck

Suitable breeding habitat present and within assessment range (Figure 17)

Assessment Category	Check one	Score
40 - 80 Indicated Pairs/100 km sq	_____	25 points
20 - 40 Indicated Pairs/100 km sq	_____	20
10 - 20 Indicated Pairs/100 km sq	_____	15
5 - 10 Indicated Pairs/100 km sq	_____	10
1 - 5 Indicated Pairs/100 km sq	<u> X </u>	5
Habitat not suitable	_____	0
Out of assessment range	_____	0

Black Duck Score (maximum 25 points) 5

4.2 SIGNIFICANT FEATURES AND HABITATS

4.2.1 NESTING OF COLONIAL WATERBIRDS

Status	Name of species	Source of information	Score
Currently nesting			50 points
Known to have nested within past 5 years			25
Active feeding area (great blue heron excluded)			15
None known			0 X

Attach documentation (nest locations, etc., if known)

Colonial Waterbirds Score (maximum 50 points) 0

4.2.2. WINTER COVER FOR WILDLIFE

(Check only highest level of significance)	<u>Score (one only)</u>
1) _____ Provincially significant	100 points
2) _____ Significant in Site Region	50
3) _____ Significant in Site District	25
3) <u> X </u> Locally significant	10
4) _____ Little or poor winter cover present	0

Source of information: Hatch

Winter cover for Wildlife Score (maximum 100 points) 10

4.2.3 WATERFOWL STAGING AND/OR MOULTING

(Check only highest level of significance for both staging and moulting; score is cumulative across columns, maximum 150 points)

	<u>Staging</u>	Score (one only)	<u>Moulting</u>	Score (one only)
1) Nationally significant	_____	150	_____	150
2) Provincially significant	_____	100	_____	100
3) Regionally significant	_____	50	_____	50
4) Known to occur	_____	10	_____	10
5) Not possible	_____	0	_____	0
6) Not known	<u> x </u>	0	<u> x </u>	0

Source of information: Field observations

Waterfowl Moulting and Staging Score (maximum 150 points) 0

4.2.4 WATERFOWL BREEDING

(Check only highest level of significance)	Score
1) _____ Provincially significant	100
2) _____ Regionally significant	50
3) <u> x </u> Habitat suitable	10
4) _____ Habitat not suitable	0

Source of information: Field observations

Waterfowl Breeding Score (maximum 100 points) 10

4.2.5 MIGRATORY PASSERINE, SHOREBIRD OR RAPTOR STOPOVER AREA

(check highest applicable category)	Score
1) _____ Provincially significant	100
2) _____ Significant in Site Region	50
3) _____ Significant in Site District	10
4) <u> x </u> Not significant	0

Source of information: Field observations

Passerine, Shorebird or Raptor Stopover Score (maximum 100 points) 0

4.2.6 UNGULATE HABITAT**EVALUATION:**Score (1) + (2) + one of (3) to (6)

(1) <input type="checkbox"/>	Ungulate summer cover	Score	- 15 points
(2) <input type="checkbox"/>	Mineral licks		= 50
(3) <input type="checkbox"/>	Moose aquatic feeding area Class 1		= 0
(4) <input checked="" type="checkbox"/>	Moose aquatic feeding area Class 2		- 10
(5) <input type="checkbox"/>	Moose aquatic feeding area Class 3		- 20
(6) <input type="checkbox"/>	Moose aquatic feeding area Class 4		= 35

(Score is cumulative for a maximum possible score of 100)

Ungulate Habitat Score (maximum 100 points) 10**4.2.7 FISH HABITAT****4.2.7.1 Spawning and Nursery Habitat****Table 5. Area Factors for Low Marsh, High Marsh and Swamp Communities.**

No. of ha of Fish Habitat	Area Factor
< 0.5 ha	0.1
0.5 - 4.9	0.2
5.0 - 9.9	0.4
10.0 - 14.9	0.6
15.0 - 19.9	0.8
20.0+ ha	1.0

Step 1: Fish habitat is not present within the wetland (Score = 0) Fish habitat is present within the wetland (Go to Step 2)**Step 2:** Choose only one option1) Significance of the spawning and nursery habitat within the wetland is known (Go to Step3)2) Significance of the spawning and nursery habitat within the wetland is not known (Go through Steps 4, 5, 6, and 7)

- Step 3:** Select the highest appropriate category below, attach documentation:
- 1) ___ Significant in Site Region 100 points
- 2) ___ Significant in Site District 50
- 3) ___ Locally Significant Habitat (5.0+ ha) 25
- 4) ___ Locally Significant Habitat (<5.0 ha) 15
- Score for Spawning and Nursery Habitat (maximum score 100 points) ___**

Step 4: Proceed to Steps 4 to 7 only if Step 3 was not scored
 (Low Marsh: marsh area from the existing water line out to the outer boundary of the wetland)

___ Low marsh not present (Continue to Step 5)
~~X~~ Low marsh present (Score as follows)

Scoring for Presence of Key Vegetation Groups

Scoring is based on the one most clearly dominant plant species of the dominant form in each Low Marsh vegetation community. Check the appropriate Vegetation Group (see Appendix 16) for each Low Marsh community. Sum the areas of the communities assigned to each Vegetation Group and multiply by the appropriate size factor from Table 5.

Vegetation Group Number	Vegetation Group Name	Present as a Dominant Form (check)	Total Area (ha)	Area Factor (see Table 5)	Score	Final Score (area factor x score)
1	Tallgrass				6 pts	
2	Shortgrass-Sedge	X	16.41	0.8	11	8.80
3	Cattail-Bulrush-Burreed	X	0.67	0.2	5	3.35
4	Arrowhead-Pickerelweed				5	
5	Duckweed				2	
6	Smartweed-Waterwillow				6	
7	Waterlily-Lotus				11	
8	Waterweed-Watercress				9	
9	Ribbongrass				10	
10	Coontail-Naiad-Watermilfoil				13	
11	Narrowleaf Pondweed				5	
12	Broadleaf Pondweed				8	
Total Score (maximum 75 points)						12.15

Step 5: High Marsh: area from the water line to the inland boundary of marsh wetland type. This is essentially what is commonly referred to as wet meadow, in that there is insufficient standing water to provide fisheries habitat except during flood or high water conditions.

High marsh not present (Continue to Step 6)
 High marsh present (Score as follows)

Scoring for Presence of Key Vegetation Groups

Scoring is based on the one most clearly dominant plant species of the dominant form in each High Marsh vegetation community. Check the appropriate Vegetation Group for each High Marsh community. Sum the areas of the communities assigned to each Vegetation Group and multiply by the appropriate size factor from Table 5.

Vegetation Group Number	Vegetation Group Name	Present as a Dominant Form (check)	Total Area (ha)	Area Factor (see Table 5)	Score	Final Score (area factor x score)
1	Tallgrass				6 pts	
2	Shortgrass-Sedge	X	1.97	0.2	11	2.2
3	Cattail-Bulrush-Burreed				5	
4	Arrowhead-Pickerelweed				5	
Total Score (maximum 25 points)						2.2

Step 6: Swamp: Swamp communities containing fish habitat, either seasonally or permanently. Determine the total area of seasonally flooded swamps and permanently flooded swamps containing fish habitat.

Swamp containing fish habitat not present (Continue to Step 7)
 Swamp containing fish habitat present (Score as follows)

Swamp containing fish habitat	Present (check)	Total area (ha)	Area Factor (see Table 5)	Score	TOTAL SCORE (factor x score)
seasonally flooded	X	51.29	1	10	10
permanently flooded	X	7	0.4	10	4
SCORE (maximum 20 points)					14

Step 7: Calculation of final score

Score for Spawning and Nursery Habitat (Low Marsh) (maximum 75 points)

- 12

Score for Spawning and Nursery Habitat (High Marsh) (maximum 25 points)

- 2

Score for Swamp Containing Fish Habitat (maximum 20 points)

- 14**Sum (maximum score 100 points) = 28**4.2.7.2 Migration and Staging Habitat**Step 1:**

- 1) Staging or Migration Habitat is not present in the wetland (Score - 0)
- 2) Staging or Migration Habitat is present in the wetland, significance of the habitat is known (Go to Step 2)
- 3) Staging or Migration Habitat is present in the wetland, significance of the habitat is not known (Go to Step 3)

Only one of Step 2 or Step 3 is to be scored.**Step 2:** Select the highest appropriate category below, attach documentation:

- | Score | |
|---|-----------|
| 1) <input type="checkbox"/> Significant in Site Region | 25 points |
| 2) <input type="checkbox"/> Significant in Site District | 15 |
| 3) <input type="checkbox"/> Locally Significant | 10 |
| 4) <input type="checkbox"/> Fish staging and/or migration habitat present, but not as above | 5 |

Score for Fish Migration and Staging Habitat (maximum score 25 points) 0**Step 3:** Select the highest appropriate category below based on presence of the designated site type (i.e. does not have to be the dominant site type). Note name of river for 2) and 3).

- | | Score |
|---|-----------|
| 1) <input type="checkbox"/> Wetland is riverine at rivermouth or lacustrine at rivermouth | 25 points |
| 2) <input type="checkbox"/> Wetland is riverine, within 0.75 km of rivermouth | 15 |
| 3) <input type="checkbox"/> Wetland is lacustrine, within 0.75 km of rivermouth | 10 |
| 4) <input type="checkbox"/> Fish staging and/or migration habitat present, but not as above | 5 |

Score for Staging and Migration Habitat (maximum score 25 points) 0

4.3 ECOSYSTEM AGE (Fractional Area = Area of wetland type/total area of wetland)

	Fractional Area		Scoring
Bog	_____	x 25	_____
Fen, treed to open on deep soils, floating mats or marl	_____	x 20	_____
Fen, on limestone rock	_____	x 5	_____
Swamp	<u>0.78</u>	x 3	<u>2.34</u>
Marsh	<u>0.22</u>	x 0	<u>0</u>

Ecosystem Age Score (maximum 25 points) 2

4.4 GREAT LAKES COASTAL WETLANDS

Score for coastal (see text for definition) wetlands only

Choose one only

- | | |
|-------------------------|-------------|
| _____ wetland <10 ha | = 10 points |
| _____ wetland 10-50 ha | = 25 |
| _____ wetland 51-100 ha | = 50 |
| _____ wetland >100 ha | = 75 |

Great Lakes Coastal Wetlands Score (maximum 75 points) 0

5.0 EXTRA INFORMATION**5.1 PURPLE LOOSESTRIFE** Absent/Not seen Present(a) One location in wetland
Two to many locations

abundance code

(b) (1) < 20 plants
(2) 20-99 plants
(3) 100-999 plants
(4) >1000 plants **5.2 SEASONALLY FLOODED AREAS**

Indicate length of seasonal flooding

check one or more

No seasonal flooding
Ephemeral (less than 2 weeks)
Temporal (2 weeks to 1 month)
Seasonal (1 to 3 months)
Semi-permanent (>3 months)
No seasonal flooding **5.3 SPECIES OF SPECIAL SIGNIFICANCE****5.3.1 Osprey** Present and nesting (attach map showing nest site)
 Known to have nested in last 5 yrs.
 Feeding area for Osprey
 not as above**5.3.2 Common Loon** Nesting in wetland (attach map showing nest site)
 Feeding at edge of wetland
 Observed or heard on lake or river adjoining the wetland
 not as above

INVESTIGATORS

AFFILIATION

Kevin Dance

Natural Resources Solutions Inc

Ken Bussel

Natural Resources Solutions Inc

Mattew Escoban
Caleb Caughlin

Hatch
Hatch

DATES WETLAND VISITED

June 5, August 6 2010

DATE THIS EVALUATION COMPLETED:

September 30, 2010

ESTIMATED TIME DEVOTED TO COMPLETING THE FIELD SURVEY IN "PERSON HOURS"

32hrs

WEATHER CONDITIONS

- i) at time of field work 19°, no precipitation 15% cloud cover
- ii) summer conditions in general warm moderate precipitation

OTHER POTENTIALLY USEFUL INFORMATION:

CHECKLIST OF PLANT AND ANIMAL SPECIES RECORDED IN THE WETLAND:

attach list of all flora and fauna observed in the wetland:

* Indicate if voucher specimens or photos have been obtained, where located, etc.)

WETLAND EVALUATION SCORING RECORD

WETLAND NAME Burk's Falls

1.0 BIOLOGICAL COMPONENT

1.1 PRODUCTIVITY

1.1.1 Growing Degree-Days/Soils	<u>26</u>
1.1.2 Wetland Type	<u>10</u>
1.1.3 Site Type	<u>3</u>
Total for Productivity	<u>39</u>

1.2 BIODIVERSITY

1.2.1 Number of Wetland Types	<u>13</u>
1.2.2 Vegetation Communities (maximum 45)	<u>7</u>
1.2.3 Diversity of Surrounding Habitat (maximum 7)	<u>5</u>
1.2.4 Proximity to Other Wetlands	<u>8</u>
1.2.5 Interspersion	<u>12</u>
1.2.6 Open Water Type	<u>14</u>
Total for Biodiversity	<u>59</u>

1.3 SIZE (Biological Component) 11

TOTAL FOR BIOLOGICAL COMPONENT (not to exceed 250) 109

2.0 SOCIAL COMPONENT

2.1 ECONOMICALLY VALUABLE PRODUCTS

- 2.1.1 Wood Products
- 2.1.2 Low Bush Cranberry
- 2.1.3 Wild Rice
- 2.1.4 Commercial Fish
- 2.1.5 Furbearers

8
0
0
12
3

Total for Economically Valuable Products

23

2.2 RECREATIONAL ACTIVITIES (maximum 80)

0

2.3 LANDSCAPE AESTHETICS

- 2.3.1 Distinctness
- 2.3.2 Absence of Human Disturbance

3
4

Total for Landscape Aesthetics

4

2.4 EDUCATION AND PUBLIC AWARENESS

- 2.4.1 Educational Uses
- 2.4.2 Facilities and Programs
- 2.4.3 Research and Studies

0
0
0

Total for Education and Public Awareness

0

2.5 PROXIMITY TO AREAS OF HUMAN SETTLEMENT

10

2.6 OWNERSHIP

4

2.7 SIZE (Social Component)

9

2.8 ABORIGINAL AND CULTURAL VALUES

0

TOTAL FOR SOCIAL COMPONENT (not to exceed 250)

50

3.0 HYDROLOGICAL COMPONENT

3.1 FLOOD ATTENUATION

77

3.2 GROUNDWATER RECHARGE

3.2.1 Site Type

14

3.2.2 Soils

7

Total for Groundwater Recharge

21

3.3 WATER QUALITY IMPROVEMENT

3.3.1 Watershed Improvement Factor

30

3.2.2 Adjacent and Watershed Land Use

15

3.2.3 Vegetation Form

8

Total for Water Quality Improvement

53

3.4 CARBON SINK

0

3.5 SHORELINE EROSION CONTROL

8

3.6 GROUNDWATER DISCHARGE (maximum 30)

13

TOTAL FOR HYDROLOGICAL COMPONENT (not to exceed 250)

172

4.0 SPECIAL FEATURES

4.1 RARITY

4.1.1 Wetlands	<u>20</u>
4.1.2 Species	
4.1.2.1 Endangered or Threatened Species Breeding Habitat	<u>0</u>
4.1.2.2 Traditional Use by Endangered or Threatened Species	<u>0</u>
4.1.2.3 Provincially Significant Animals	<u>0</u>
4.1.2.4 Provincially Significant Plants	<u>0</u>
4.1.2.5a Regionally Significant Species	<u>0</u>
4.1.2.5b Locally Significant Species	<u>0</u>
4.1.2.6 Species of Special Status	<u> </u>
Total for Species Rarity	<u>5</u>

4.2 SIGNIFICANT FEATURES OR HABITAT

4.2.1 Colonial Waterbirds	<u>0</u>
4.2.2 Winter Cover for Wildlife	<u>10</u>
4.2.3 Waterfowl Staging and Moulting	<u>0</u>
4.2.4 Waterfowl Breeding	<u>10</u>
4.2.5 Migratory Passerine, Shorebird or Raptor Stopover	<u>0</u>
4.2.6 Ungulate Habitat	<u>10</u>
4.2.7 Fish Habitat	<u>28</u>
Total for Significant Features and Habitat	<u>58</u>

4.3 ECOSYSTEM AGE 2

4.4 GREAT LAKES COASTAL WETLANDS 0

TOTAL FOR SPECIAL FEATURES (not to exceed 250) 90

SUMMARY OF EVALUATION RESULT

Wetland Burk's Falls

TOTAL FOR 1.0 BIOLOGICAL COMPONENT	<u>109</u>
TOTAL FOR 2.0 SOCIAL COMPONENT	<u>50</u>
TOTAL FOR 3.0 HYDROLOGICAL COMPONENT	<u>172</u>
TOTAL FOR 4.0 SPECIAL FEATURES COMPONENT	<u>90</u>
<u>WETLAND TOTAL</u>	<u>421</u>

INVESTIGATORS

Kevin Dance
Ken Burrell
Catelyn Coughlin
Martine Esraelian

AFFILIATION

Natural Resources Solutions Inc
Natural Resources Solutions Inc
Hatch
Hatch

DATE September 20, 2010

Ha in Wetland number	wetland number	Code	Forms & Species	Dominant Form	Wetland Type	No. Of Forms	Soils*	Area (ha)	Site Type**	% Open Water	Area of Open Water (ha)
					B: Bog, F: Fen, S: Swamp, M: Marsh						
	1	tsS ₃	[ELC: Speckled Alder Mineral Deciduous Thicket Swamp Type (SWTM1-1)] ts*: Alnus incana spp. Rugosa ne: Carex sp., Comarum palustre, Triadenum virginicum	ts	S	2	clay/loam	5.73	R	3	0.1719
20.86	1	neM3	[ELC: Mixed Mineral Meadow Marsh Ecosite (MAMM3)] gc: Impatiens capensis, Rubus occidentalis, Lycopus uniflorus, Eupatorium maculatum ssp. Maculatum ne*: Carex lupulina, Leersia oryzoides, Carex sp. re: Scirpus atrovirens, Scirpus cyperinus	ne	M	3	clay/loam	15.13	R	10	1.513
15.13	2	reM4	[ELC: Cattail Mineral Shallow Marsh Type (MASM1-1)] ne: Glyceria sp. re*: Typha latifolia, Schoenoplectus acutus	re	M	2	clay/loam	0.67	R	100	0.67
	3	cS ₂	[ELC: Maple Mineral Mixed Swamp Ecosite (SWMM2)] c : Picea glauca, Larix laricina, Picea mariana gc: Maianthemum canadense, Cornus Canadensis, Chamerion angustifolium spp. Angustifolium, Pteridium aquilinum var. latiusculum	c	S	3	clay/loam	51.29	P	8	4.1032
	3	neM5	[ELC: Fowl Meadow Grass Graminoid Mineral Meadow Marsh Type (MAMM1-7)] ls: Spiraea alba ne*: Glyceria striata, Carex crinita, Carex sp.	ne	M	2	clay/loam	1.51	P	0	0
58.93	3	tsS4	[ELC: Speckled Alder Mineral Deciduous Thicket Swamp Type (SWTM1-1)] ts*: Alnus incana spp. Rugosa	ts	S	1	clay/loam	6.13	R	0	0
	4	tsS1	[ELC: Speckled Alder Mineral Deciduous Thicket Swamp Type (SWTM1-1)] ts*: Alnus incana spp. Rugosa gc: Onoclea sensibilis, Euthamia graminifolia, Trifolium pratense, Impatiens capensis, Eupatorium maculatum ssp. Maculatum	ts	S	2	clay/loam	7	R	15	1.05
7.46	4	neM2	[ELC: Mixed Mineral Meadow Marsh Ecosite (MAMM3)] ls: Spiraea alba ne*: Glyceria sp., Carex crinita, Carex lupulina, Equisetum pratense, Poa pratensis ssp. Pratensis	ls	M	2	clay/loam	0.46	P	0	0
	5	neM1	[ELC: Mixed Mineral Meadow Marsh Ecosite (MAMM3)] gc: Onoclea sensibilis, Equisetum arvense, Persicaria sagittata, Impatiens capensis ne*: Carex crinita, Carex lupulina	ne	M	2	clay/loam	1.71	P	3	0.0513
						9		89.63			7.5594

clay/loam
silt/marl
limestone
sand
humic/mesic (organic)
fibric (organic)
granite

Isolated
Palustrine (permanent or intermittent flow)
Riverine
Riverine (at rivermouth)
Lacustrine (at rivermouth)
Lacustrine (on enclosed bay with barrier beach)
Lacustrine (exposed to lake)

Wetland Type, Site Type and Dominant Form Areas

Total Area: 89.63 ha

Wetland Type	%	Area (ha)
Bog	0	
Fen	0	
Swamp	0.78266	70.15
Marsh	0.21734	19.48

Site Type	%	Area (ha)
Isolated	0	
Palustrine (permanent or intermittent flow)	0.6133	54.97
Riverine	0.3867	34.66
Riverine (at rivermouth)	0	
Lacustrine (at rivermouth)	0	
Lacustrine (on enclosed bay with barrier beach)	0	
Lacustrine (exposed to lake)	0	

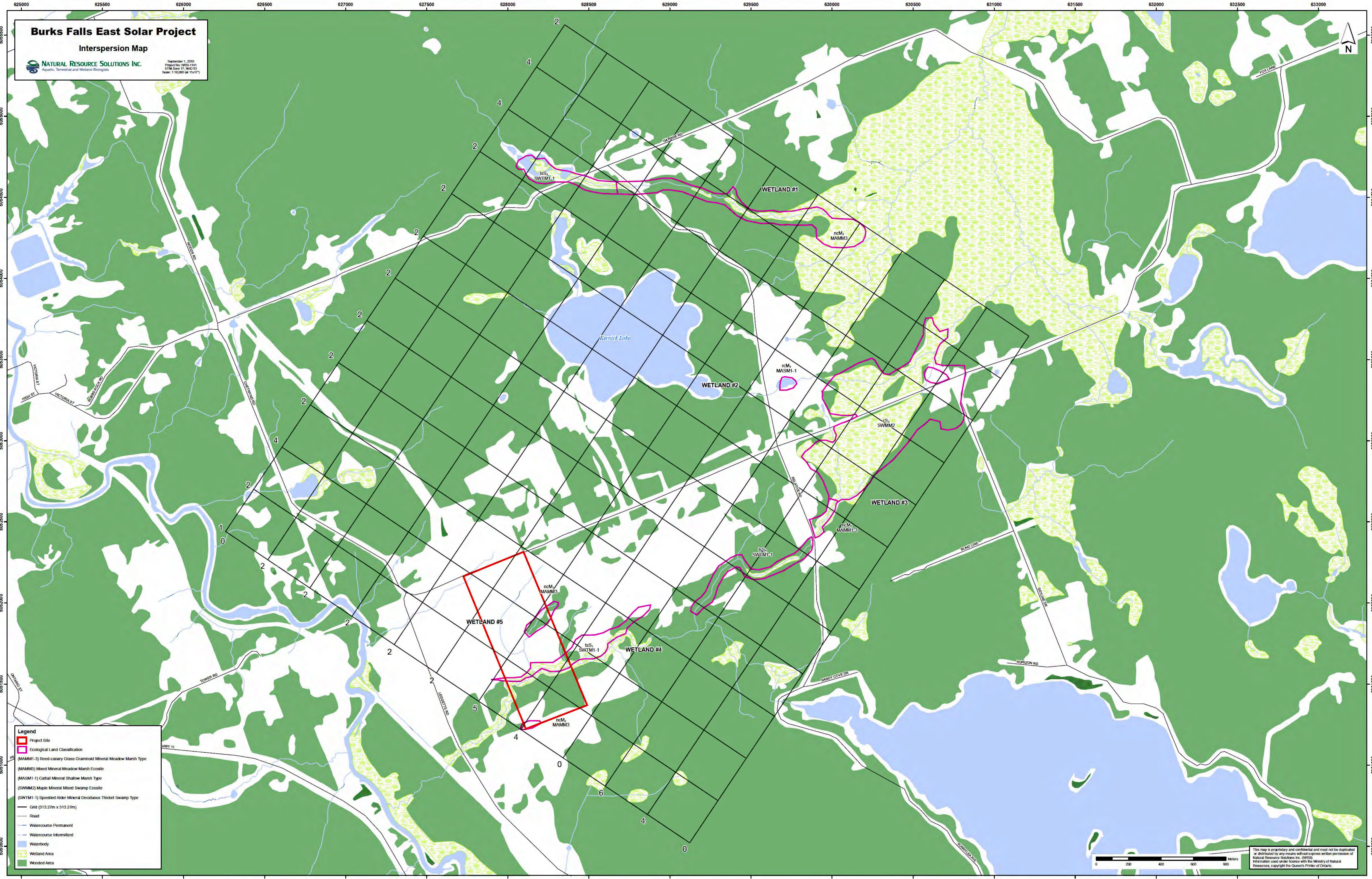
Dominant Form	%	Area (ha)
h	0	
c	0.57224	51.29
dh	0	
dc	0	
ds	0	
ts	0.21042	18.86
ls	0.00513	0.46
gc	0	
ne	0.20473	18.35
be	0	
re	0.00748	0.67
ff	0	
ff	0	
su	0	
m	0	

Burks Falls East Solar Project

Interspersion Map

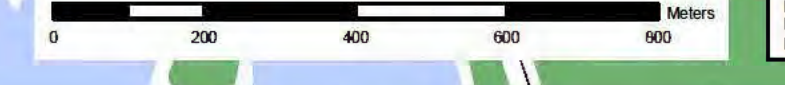
NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

September 1, 2010
Project No: NRS-1141
UTM Zone 17, NAD 83
Scale: 1:10,000 (A 11x17")



Legend

- Project Site
- Ecological Land Classification
- (MAMM1-3) Reed-canary Grass Graminoid Mineral Meadow Marsh Type
- (MAMM3) Mixed Mineral Meadow Marsh Ecosite
- (MASM1-1) Cattail Mineral Shallow Marsh Type
- (SWM2) Maple Mineral Mixed Swamp Ecosite
- (SWTM1-1) Speckled Alder Mineral Deciduous Thicket Swamp Type
- Grid (313.27m x 313.27m)
- Road
- Watercourse Permanent
- Watercourse Intermittent
- Waterbody
- Wetland Area
- Wooded Area

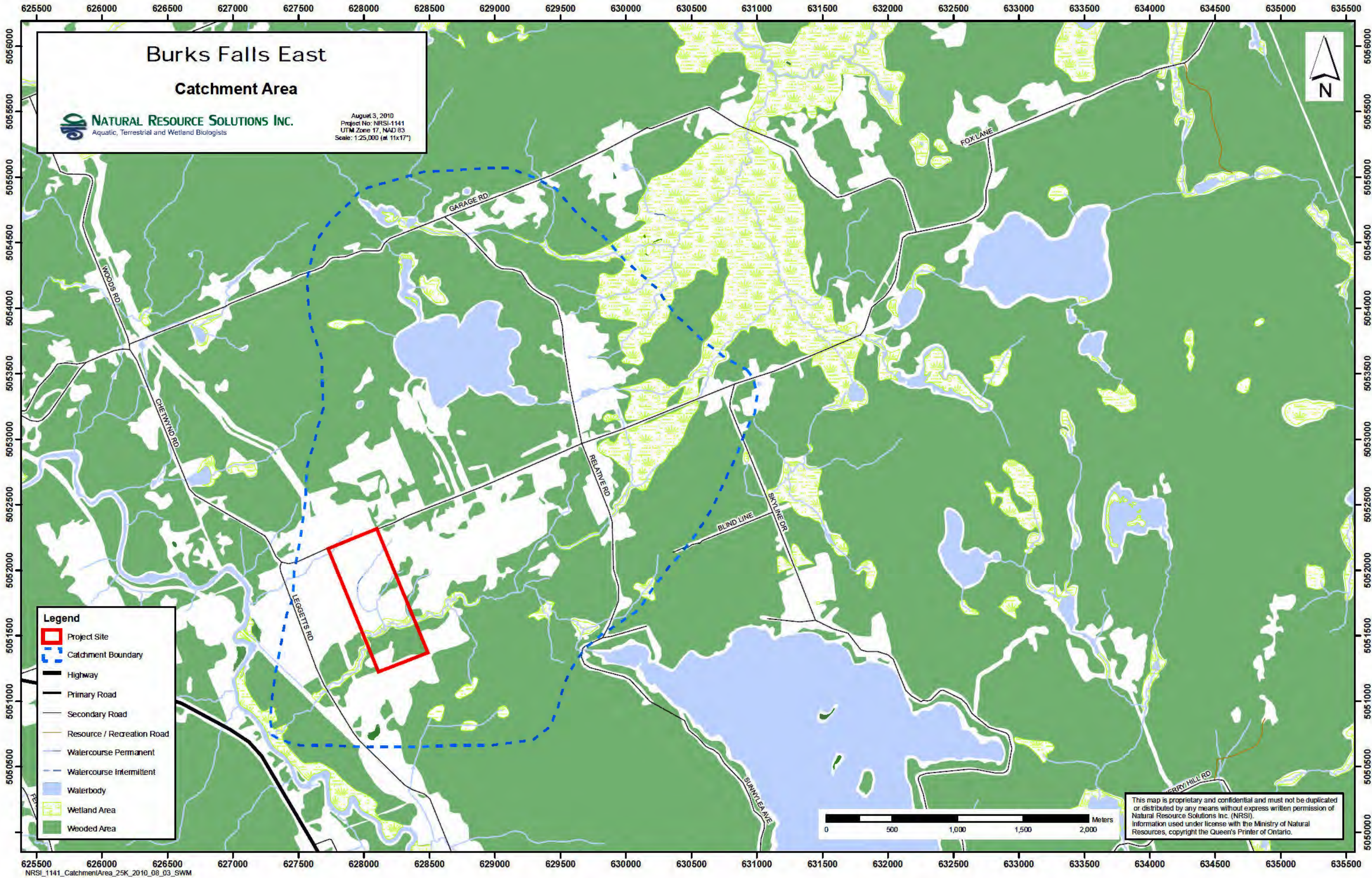


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Burks Falls East Catchment Area

 **NATURAL RESOURCE SOLUTIONS INC.**
Aquatic, Terrestrial and Wetland Biologists

August 3, 2010
Project No: NRSI-1141
UTM Zone 17, NAD 83
Scale: 1:25,000 (at 11x17")



Legend

-  Project Site
-  Catchment Boundary
-  Highway
-  Primary Road
-  Secondary Road
-  Resource / Recreation Road
-  Watercourse Permanent
-  Watercourse Intermittent
-  Waterbody
-  Wetland Area
-  Wooded Area



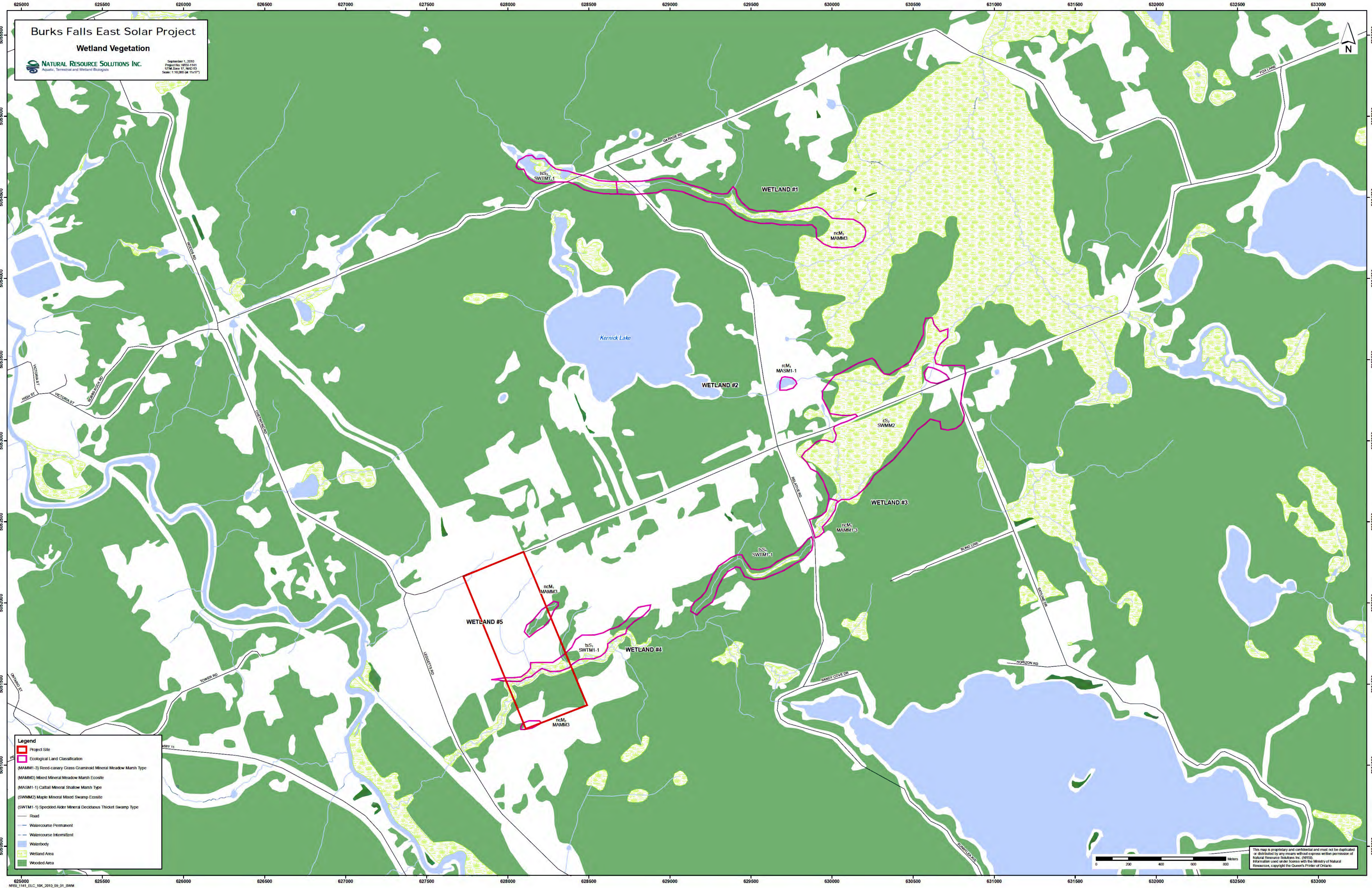
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Burks Falls East Solar Project

Wetland Vegetation

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

September 1, 2010
Project No: NRS-1141
UTM Zone 17, NAD 83
Scale: 1:10,000 (A 11x17")



Legend

- Project Site
- Ecological Land Classification
- (MAMM1-3) Reed canary Grass Graminoid Mineral Meadow Marsh Type
- (MAMM3) Mixed Mineral Meadow Marsh Ecotone
- (MASM1-1) Cattail Mineral Shallow Marsh Type
- (SWMM2) Maple Mineral Mixed Swamp Ecotone
- (SWTM1-1) Speckled Alder Mineral Deciduous Thicket Swamp Type
- Road
- Watercourse Permanent
- Watercourse Intermittent
- Waterbody
- Wetland Area
- Wooded Area



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Burks Falls East Solar Energy Proposal



Legend

Roads

- Provincial/Municipal
- Primary
- Secondary
- - - Tertiary
- ▭ Township
- + + + Railway

Winter Deer Habitat Mapping

- ▭ Non-winter habitat
- ▭ Stratum 2 Winter Habitat
- ▭ Stratum 1 Winter Habitat

1:10,000



NOTE: This map is illustrative only. Do not rely on it as being a precise indicator of routes, locations of features, nor as a guide to navigation.

McRae, Elizabeth

From: Shaver, Dorothy (MNR) [dorothy.shaver@ontario.ca]
Sent: Monday, November 01, 2010 7:26 PM
To: Male, Sean; Tom Hockin
Cc: Tran, Phung (MNR); Cotnam, Erin (MNR)
Subject: MNR response to BurksFalls East&West Solar NHAs_Oct2010.doc
Attachments: Burks Falls East.deer habitat 2010.pdf; MNR response to BurksFalls East&West Solar NHAs_Oct2010.doc

Sean and Tom:

Attached is our review of the NHA reports for the Burk's Falls East and Burk's Falls West projects.

We look forward to discussing this with you this Friday, November 5. Thanks, Tom, for making the arrangements for the teleconference.

Dorothy

Dorothy Shaver

District Planner
Parry Sound District
Ministry of Natural Resources

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November 1, 2010

Sean Male, REA Co-ordinator
HATCH
4342 Queen Street, Suite 500
Niagara Falls, Ontario
L2E 7J7

Dear Mr. Male:

Subject: Burk's Falls West & Burk's Falls East Solar Projects: Natural Heritage Reports

We received on August 20 four Natural Heritage reports for each of the above 2 solar projects: Records Review Report, Site Investigations Report, Evaluation of Significance Report, and Environmental Impact Study. A fifth report (Wetland Evaluation report) was received for the Burk's Falls East site, on September 24. We have reviewed these reports and provide the following comments and recommendations, which include both major concerns and some minor comments for your consideration.

A. RECORDS REVIEW REPORTS:

1. **Section 1.3:** We wonder why the Endangered Species Act (ESA) and Fish and Wildlife Conservation Act (F&WCA) are not specified as legislation which may require separate approvals and permits. The relevance of these pieces of legislation is flagged on pages 26-27 of the MNR Approvals and Permitting Requirements Document (APRD).

Bobolink was recently listed (September 29, 2010) as a threatened species on the Species at Risk in Ontario (SARO) list. It, therefore, now has habitat protection under the ESA. Being documented on both properties, Bobolink will likely have ESA implications on the proposals.

All ESA issues should be addressed well in advance of any site activities or site alteration, meeting Section 6.3.5.1 of the MNR APRD.

Whether or not you will require authorization under the F&WCA should also be considered, for example at either the construction or monitoring stages.

2. **Section 2:** Contrary to the 4th paragraph of each report, there are indeed "municipal planning authorities" with jurisdiction over the project locations; these are appropriately addressed in Sections 2.3 and 2.4 of these reports. This should be corrected.

3. **Section 2.1.1:**

- a) Regarding the Ryerson (Burk's Falls West) site:
 - We wonder what unevaluated wetland the top bullet point on Page 8 is referring

Continued on Page 2 ...

to?

- Since this section is addressing natural features within 1 km of the site, the provincially significant wetland that is located to the west and south of the site, beyond 120 metres but within 1km should be referenced; this should have been noted through LIO.
- Regarding the 2nd bullet on Page 2, there are inaccuracies in provincial electronic databases, like LIO, for many authorized aggregate sites in this area. This is based on the lack of detailed site plans since this general area only became designated under the Aggregate Resources Act (ARA) in 2007. Specifically, there is an error in LIO regarding the extent of the pit and quarry on the proposed Ryerson project location. Section 2.1.1 and Figure 1.1 (and the comparable figures in the subsequent reports) should be revised to clarify that all of the proposed project location is within an ARA licence area, which includes all of Lots 2 and 3, Concession 9.

b) Regarding the Armour (Burk's Falls East) site:

MNR is currently in the process of finalizing up-dated mapping of the deer wintering habitat in this area. In March 2010, MNR staff carried out an aerial reassessment of winter deer habitat of all of Wildlife Management Unit 50, including this area. We attach a "pdf" showing the habitat identified based on the aerial survey. Portions of the margins of this site are considered to be within Stratum 2 of the deer wintering habitat; such areas are important components of this wintering habitat, albeit not part of the core. Our wildlife biologist advises that based on the scale of MNR's deer habitat mapping, it should be used as an indicator, identifying a need for site investigation within 1.5 km of its boundaries to determine the detailed specific boundaries. This habitat assessment must be carried out in the appropriate part of the winter (see Site Investigations Report section).

- c) For both reports, there should be an acknowledgement of the May 28, 2010 meeting between Northland Power, Hatch, and MNR. At that meeting, MNR provided information and advice on a number of natural heritage values, including SAR, and the likelihood of their occurrence on the 2 sites. At this point, we have provided all relevant available information to you.

4. **Table 2.1:** The Five-Lined Skink has a SARO status of Special Concern. While the Ryerson report identifies this status, the Armour report has omitted this information.

B. SITE INVESTIGATIONS REPORTS:

1. **Boundaries of Natural Features:** Section 26(1)(c) of the REA regulation requires the identification of the boundaries, located within 120 metres of the project location, of any natural features that were identified during records review or site investigation. Specifically, there is a need for mapping of the components of the woodland and wetland communities, in order to fully address the range of potential wildlife habitats. We ask that the ELC communities be mapped, recognizing that the text of the Armour report already discusses the ELC communities. The ELC communities should be labelled in such a way that they tie in to the accompanying text in Section 4 of the reports.
2. **ELC and Ryerson report:** While the text of the Armour report addresses the ELC communities, the Ryerson report does not. We ask that the text of the Ryerson report

Continued on Page 3 ...

discuss each ELC community in order to provide the level of clarity identified in the Armour report and to facilitate mapping of these natural features. Without such information, there is no methodical, comprehensive assessment provided of natural features in and within 120 m of the project location, as required by Section 26(1) of the REA regulation. This should form a basis to address significance as per Section 27 of the REA regulation.

3. **MNR's SWHTG:** We recommend the use of MNR's significant Wildlife Habitat Technical Guide to determine the potential for the various ELC communities to provide significant wildlife habitat.
4. **Need for Additional Site Investigation and Mapping:** Based on the records reviews, and site investigation reports, it is our position that additional site investigation work is required to meet the requirements of Section 26 of the REA regulation. Specifically, the following natural features within or within 120 metres of the proposed project location, require assessment and mapping. As discussed later in this letter these features should also be evaluated for significance to meet Section 27 of the REA regulation.
 - a) The following should be addressed for the Ryerson site:
 - The creek that crosses the property should be assessed to determine if it is a wildlife movement corridor. Assessments should be carried out at the appropriate time of year, with the specific timing depending on the wildlife species that are expected to use the corridor, for example:
 - Reptiles and amphibians should be assessed in the April to June period, when species are migrating from their hibernation sites and/ or moving to breeding/ nesting sites.
 - Deer migration corridor surveys should be conducted in the late fall after snow depths reach 20 cm in summer range and during the spring between the times that snow depth in the wintering habitat is between 15 and 5 cm in depth. If the late fall survey confirms such habitat, the spring survey is not necessary. However, if the late fall survey does not confirm this habitat, a spring survey should also be carried out since there may have been a temporary factor (like predators) limiting use of the corridor in the fall.
 - Page 9 of the site investigation indicates that a pond was found; however, it was not mapped and it is not clear where it is located. Since this pond has naturalized and contains frogs, it should be assessed to determine if it is wildlife habitat. Use of the pond by amphibians and reptiles should be carried out in May or June.
 - Although there are no recorded observations, Stirling Creek likely has Snapping Turtles and possibly Ribbonsnakes, both of which are species of Special Concern. Areas associated with the tributary of Stirling Creek should therefore be subject to site investigation in April to June.
 - Site investigation was not carried out at an appropriate time of year to determine if there is specialized habitat (nest sites) for forest nesting raptors. Additional assessment is required during the spring between March and May.
 - Page 14 of the report states that there would be assessment of the wetland in the adjacent lands associated with the tributary of Stirling Creek. However, your September 24 letter advises that since the "project footprint" is to be more than

Continued on Page 4 ...

120 m away from these wetland communities, the wetland evaluation is not required. It is our view that the wet meadow marsh and thicket swamp communities likely provide wildlife habitat, and accordingly this should be assessed. Section 26 of the REA regulation directs that site investigation is required within 120 metres of the “project location”. While Figure 1.1 of the report shows that the proposed “solar panel footprint boundary” would be at least 120 metres from the wetland, it also shows that the project location (and related activities) is within 120 metres of the wetland. Accordingly, any areas of the proposed project location within 120 metres of the wetland must be assessed for wildlife habitat or alternatively the project location boundaries should be revised. Such assessment should be carried out in the spring or early summer.

- All rock outcrops, mast producing areas, seeps and springs must be mapped. Some such sites were apparently identified during the previous site investigation, but there was no mapping provided nor any indication of any assessment of the potential of these sites to provide wildlife habitat. These sites should be assessed during the spring, summer and/ or fall (depending on species at issue). June to August is a suitable time of year to survey for mast producing areas; our earlier comments addressed timing of reptile and amphibian surveys.

b) The following should be addressed for the Armour site:

- Additional site investigation is required of deer wintering habitat. This must be carried out in mid winter - while deer are concentrated in winter habitats during the period when snow exceeds 50cm in depth. In most winters, these conditions occur during the month of February or first week of March.
- Tributaries of the Magnetawan River should be assessed for use as animal movement corridors.
- The “large mammal den” identified within 120 metres of the southern part of the proposed project location should be treated as significant wildlife habitat, because a den is considered specialized habitat. On that basis, it should be subject to site investigation and evaluated.
- Other wildlife habitat features that need to be mapped and assessed for significance include rock outcrops, mast producing areas, seeps and springs, etc. It is not clear whether these features were looked for and were not present or if they were not considered as potential significant wildlife habitat. Such sites should be assessed during spring, summer and/ or fall (depending on species at issue). See the last bullet point under subsection (a) above for our recommendations on timing.
- Site investigation was not carried out at an appropriate time of year to determine if there is specialized habitat (nest sites) for forest nesting raptors. Additional assessment is required during the spring.

c) We have the following comments regarding the wetland evaluation that was carried out for wetlands associated with the Armour project location.

- The wetland evaluation does not meet the standards set out in the Ontario Wetland Evaluation System (OWES), and as such we are not able to accept its conclusions that the wetland complex is not provincially significant. On that basis, either the wetland evaluation should be completed to OWES standards or

Continued on Page 5 ...

alternatively the proponent could carry out the project treating the wetlands as provincially significant (that is, exclude the wetlands from the project location, and mitigate the impacts of the activities within the 120 metre adjacent lands area). Any additional field assessment would need to be carried out next summer (after mid June).

- Wetland evaluations that are submitted to MNR for approval must be carried out by those who have been trained in the OWES. However, we are not able to locate either the author of the evaluation or any of the site investigators on the provincial list of trained evaluators. Can their training be confirmed?
- Wetland complexing was not carried out correctly. Individual wetland units composed of contiguous vegetation communities make up wetland complexes. It appears to us that there should be 7 wetland units for this evaluation as mapping stands currently (but see comment below)
- Wetland unit #2 does not seem to be sized correctly at 15.13 ha – it looks like it should be about 0.5 ha.
- There needs to be clarification and/or rationalization of how areas were chosen to be the wetland areas. The current mapping does not appear to match imagery. Specifically, there are 2 sub watersheds included (Wetland units #1 and #2 and portions of #3 all drain to the northeast towards Jacks Lake, whereas wetlands # 4 and 5 and portions of #3 drain towards the southwest). If the decision is made to include all these wetland units within the one complex, then areas downstream of Wetlands #1, 2 and 3 (i.e. towards Jacks Lake) were missed based on examination 2010 eFRI imagery. The area downstream of Units #4 and 5 also appears to have been missed. In addition, there appears to be areas mapped as wetland which appear to be upland on the digital imagery (e.g. at corner of Skyline Drive and Chetwynd Rd).
- Some errors from the Data Record and other comments:
 - Area office is Bracebridge
 - “County” is Territorial District of Parry Sound not Municipality of Magnetawan.
 - NTS map name is Burk’s Falls not Huntsville
 - Aerial photographs – need clarification on what was used (e.g. digital MNR eFRI photos?)
 - Wetland size and boundaries (page 2) - see comment above, should be 7 units as mapping currently stands
 - No plant or animal species lists appended
 - Dates wetland visited listed as June 5 and August 6, but all field notes are dated August 6.
 - Was an effort made to contact MNR resource staff to assess level of hunting or other uses in the area?
- We will complete a more detailed review of the evaluation once the major questions regarding wetland area and boundaries are addressed.

5. Figure 1.1:

- a) In both reports, the legend should identify the meaning of the grey coloured tone.
- b) The key map in the Ryerson report misidentifies the location of this proposed project location, and this error is carried forward into the subsequent reports. This error

Continued on Page 6 ...

should be corrected for all reports.

6. **Section 3.4:** In both reports, this section should confirm whether or not the field survey on foot included the entire “study area”, in particular adjacent properties where these are within 120 metres of the proposed project location.
7. **Section 4:** Regarding the Ryerson report, we question whether there are indeed sand “dunes” on this site.
8. **Section 5:** We believe that the above comments and subsequent additional site investigation would likely necessitate corrections to both Records Review Reports, as per Section 26(3)(1) of the REA regulation.
9. **Appendix A:** The field notes are almost illegible for both site investigation reports.

C. EVALUATION OF SIGNIFICANCE REPORTS:

1. Further to the additional site investigation that we have recommended above, any wildlife habitat features identified must be specifically and individually evaluated for significance in order to meet Section 27 of the REA regulation.
2. Section 27 of the REA regulation requires this report to also address:
 - Information obtained during consultations under Sections 16, 17 and 18 of this regulation; and
 - The dates of the beginning and completion of this evaluation.

D. ENVIRONMENTAL IMPACT STUDY REPORTS:

1. Where our comments under Section B above identify a need for further site investigation, along with subsequent evaluation of significance, any identified significant wildlife habitats must be addressed in the EIS in terms of potential impacts and mitigating measures. These must specifically and directly address each significant habitat feature, each of which must be mapped.
2. Both site investigations reports identify an assumption that milksnake may be present; we agree with this assumption. On that basis, the EIS must address potential impacts.
3. The Armour report identifies an assumption that Eastern Ribbonsnake may be present; we agree with this assumption. On that basis, the EIS must address potential impacts.
4. The Ryerson report identifies that there is potential for eastern hog-nosed snake to occur on this site. While not a requirement of the REA regulation, there are ESA implications. If eastern hog-nosed snake or other threatened or endangered species, or habitat protected under the ESA, are found in the project location an ESA permit may be required. An ESA permit could also be required at a later date to continue activities if an ESA protected species or habitat is found in the future. Section 6.3.5.1 and Appendix B of MNR’s APRD set out MNR’s requirements on determining the presence of endangered or threatened species and their habitats. We encourage early and on-going evaluations and discussions by the proponent with MNR regarding species and habitat protection under the ESA.

Continued on Page 7 ...

Page 7 ...

5. Section 3.1 (Construction):

- More details about the proposed projects are required, including (but not limited to) the size and placement of proposed drilled holes or foundations, how many holes are proposed, how high the photovoltaic panels would be off the ground, the location of access trails/ roads for maintenance of the facility, and the height and type of fencing to be installed. Also, the distance between the rows of panels is required, to give an idea of where mowing would occur. This detail necessitates mapping and is required to enable assessment of “any negative environmental effects”, as required under Section 13 of the REA regulation (Item 1 of Table 1).
- Table 3.1 should be specific, without non-committal wording like “as necessary” and “if the roads are to be removed”.
- The proposed clearcutting of the woodlot at the south end of the Armour property should be discussed as a construction activity.
- The proposed construction of road and creek crossings (crossing the creek/ wetland/ animal movement corridor) for access to the south end of the Armour property should be addressed, along with any additional trail/ road crossings at the Ryerson site.

6. Section 4.1 (Vegetation Communities/ Wildlife Habitat): It is our view that all potential impacts have not been identified, such as potential impacts from the fencing of the site that is referenced in Table 3.1. This should be specifically addressed in this and subsequent sections.

7. Section 4.1.1 (Construction Phase):

- There is a need for more clarity as to which specific features/ vegetation communities/ wildlife habitats would be affected and how. This should tie in to the mapping.
- There should be a clear commitment to timing restrictions for construction activities related to the breeding bird period, for bobolink as well as other species.
- Where the report states that “wherever possible, work will be scheduled outside of the breeding bird period”, there must be definitive commitments that construction activities will commence after the end of the breeding season (i.e. after July 31), replacing the current vague statements.

8. Section 4.1.2 (Operations Phase):

- There needs to be scientific justification for the various conclusions made in this section, including statements such as “Bobolink will adjust to the presence of passive structures within their environment” and “though there will be some initial avoidance of the area, it is expected that Bobolink will eventually re-colonize the Project site.” There is evidence that suggests that the opposite is true of both statements and we believe that the area would more than likely become unusable by Bobolinks both during construction and after construction.
- There is a need for more detail on proposed mitigation measures. This should include the mix of grasses to promote bobolink nesting and how much area would actually be retained in grassland etc. It should also include proposed measures to

Continued on Page 8 ...

Page 8 ...

protect significant wildlife habitat that is identified through the additional site investigation and evaluation of significance.

9. Section 4.2.1 (Construction Phase):

- There should be clear timing restrictions for construction outside the breeding bird period, with the specific timing restrictions specified – we recommend no construction between May 1 and July 31.
- Vague statements like “wherever possible” should be replaced.
- We disagree with the proposed mitigation measure of searching for nests (recommended for activities that will need to occur during the breeding period). It is our position that this would not be meaningful in determining if there are nests present because Bobolink nests are very difficult to find and adult birds are very efficient at avoiding detection. Either a detailed search methodology should be presented to demonstrate that this method would be appropriate or else another mitigation approach must be proposed.
- As mentioned previously, please provide scientific justification for the statements that Bobolinks would be able to return and use the site after construction.

10. Section 4.2.2 (Operations Phase):

- As discussed for Section 4.2.1, there must be clear timing restrictions for proposed activities.
- Regarding, statements such as “if these activities are required during the period, the site will be searched for breeding birds prior to undertaking mowing activities”, our comment under Section D.8 (3rd bullet) applies.

11. Section 5.0 (Environmental Effects Monitoring Plan): The monitoring plan must clarify who will do the monitoring, who reviews the monitoring information and who ensures that the contingency measures are taken.

On Friday October 22, we received a series of updated Natural Heritage Assessment reports for the Armour Township site. Rather than delay this response, we completed our review of the original 8 reports, and will send an up-dated review for the 4 revised reports as soon as possible.

We look forward to discussing these comments with you and Northland Power on Friday November 5. Thank you for making the teleconference arrangements.

Sincerely,

Dorothy Shaver
District Planner

Attachment: pdf mapping of up-dated deer wintering habitat

c.c Tom Hockin, Northland Power;
Erin Cotnam, SR, MNR.

McRae, Elizabeth

From: Shaver, Dorothy (MNR) [dorothy.shaver@ontario.ca]
Sent: Tuesday, November 02, 2010 8:37 AM
To: Male, Sean; Tom Hockin
Cc: Tran, Phung (MNR); Cotnam, Erin (MNR)
Subject: Map re MNR wetland comments -Burk's Falls East
Attachments: Burks Falls East Wetland JMcdOct2010.jpg

Follow Up Flag: Follow up
Flag Status: Completed

Sean and Tom:

Further to our response of November 1, I attach a jpg of MNR 2010 eFRI imagery that our wetlands biologist pulled together to tie into our comments on Page 5 about the boundary of wetland areas. We can discuss this further at our Friday telecon if you wish.

Dorothy

Dorothy Shaver

District Planner
Parry Sound District
Ministry of Natural Resources

Telephone: 705-773-4231



Burks Falls Wetland Evaluation

- red - sketch of wetland boundary
- green - OBIM wetland
- pink - property boundary
- blue - streams

JMcD Oct 20, 2010

McRae, Elizabeth

From: Shaver, Dorothy (MNR) [dorothy.shaver@ontario.ca]
Sent: Monday, December 20, 2010 3:37 PM
To: Male, Sean; Tom Hockin
Cc: Cotnam, Erin (MNR); Dixon, Rebecca (MNR); Tran, Phung (MNR)
Subject: Burk's Falls East Solar Proposal - Dec 1 NHA reports
Attachments: December 20 2010 response.doc

Sean and Tom:

As promised, here are our comments regarding the December 1 revised NHA reports. We look forward to resolution of these issues and the submission of your final reports, so that we can provide you with the needed confirmation letter.

Wishing you a Merry Christmas and Happy New Year

Dorothy

Dorothy Shaver
District Planner
Ministry of Natural Resources

Telephone: 705-773-4231

December 20, 2010

Sean Male, REA Co-ordinator
HATCH

Dear Mr. Male:

SUBJECT: Burk's Falls East Solar Project: Natural Heritage Reports (rev. Dec. 1, 2010)

We have reviewed the revised Natural Heritage Reports that you sent to us on December 1, 2010. While the majority of our concerns have been fully addressed, there remain several issues which prevent us yet issuing a confirmation letter as per Section 28(2) of O. Reg. 359/09.

A. Records Review Report: No concerns remaining.

B. Site Investigation Report: The majority of our concerns were adequately addressed in the revised report, except for the following:

1. Figure 4.2 identifies areas of CUM (Cultural Meadow) and CUH (Cultural Hedgerow). While Section 4.2 appropriately addresses the majority of identified vegetation communities, it omits these 2 communities. This information is required, given the potential habitat values of such areas, and because these habitats are specifically discussed in the Evaluation of Significance report.
2. It continues to be our position that the wetland evaluation does not meet the standards set out in the Ontario Wetland Evaluation System (OWES), and requires further field work. The limitations are set out below, but at this point, since additional field work would have a significant impact on the timelines of the project, we would encourage Northland to strongly consider taking advantage of the newly released Wetland Assessment process set out in Appendix C of MNR's draft "Natural Heritage Guide for Renewable Energy Projects", which I e-mailed to you on December 14, 2010. While still a draft document, MNR accepts use of this Guide, including the wetland assessment process for renewable energy projects.

Depending on the level of field information already obtained, it is possible that this streamlined process could be completed mainly through a desktop analysis. However, application of this process necessitates treating the wetland itself as provincially significant, which would require a minor redesign of the project to exclude development and activities from all parts of the wetland in the Project Location.

For your information, the following are the most major remaining concerns about the OWES wetland evaluation, based on the November 24, 2010 response memo from David Stephenson:

- i. It is our position that further field work would be needed to rationalize a decision as to whether to include or exclude various areas from the wetland. As an example, there are wetland pockets on the stream between the property and 3 Mile Lake that could, and probably should, be complexed with the subject wetland.
- ii. The above would affect scoring, and our wetland biologist cannot accept a re-scored

evaluation as meeting the OWES standard without the additional field work.

iii. Our wetland biologist identifies other **examples** of inadequacies of the evaluation:

- Section 2.1.5 lists beaver as the only furbearer found. It seems unlikely at such a site that **signs** of other mammals considered furbearers such as raccoon, red squirrel or fox wouldn't have been present.
- Section 2.2 of the evaluation scores Recreational Activities as "Not possible - 0", based on a source of information being "private property". It is our view that it is unlikely that **none** of the privately owned wetlands is used for recreational activities, and "private property" is an inadequate rationale for this score.

iv. The MNR Natural Heritage Reference Manual (2010), the guidance for the NHR work carried out to date states that those carrying out wetland evaluation to meet OWES must have "*received MNR training in the use of the Province's wetland evaluation system*". It does not say that those doing an evaluation must work "*under the supervision or direction of*" someone who has received that training. The purpose of this specific source of training is to ensure that field evaluators fully understand the requirements and interpretations of applying OWES, so that all evaluations carried out meet the same standard. David Stephenson has acknowledged that the field staff carrying out the evaluation do not have MNR training in OWES. It is our view that some of the inadequacies of the evaluation may be attributed to the lack of the MNR prescribed training. As an aside, we note that we are still unable to locate David Stephenson's name on the provincial list of those having taken the MNR training.

3. The following editorial corrections should be made:

- In Section 4.1, the last sentence would be more accurate if revised to the effect that "A photograph of the **meadow component of the project location** is shown in Figure 4.1".
- The title of Section 4.4 would be more accurate if reworded to "Endangered and Threatened Species", since other species at risk are discussed in Section 4.3.1.3.
- In Section 4.4, Bobolink's listing should be worded as "listed as Threatened on the Species at Risk in Ontario (SARO) list". It is not listed on the ESA.

C. Evaluation of Significance Report:

1. As discussed under Section B(2), we disagree that here has been adequate evaluation to substantiate the conclusions that the wetland areas are not provincially significant.
2. While Section 1.2.3 states that information obtained during the consultations conducted under Sections 16, 17 and 18 of O.Reg.359/09 would be addressed in this report, we are unable to find this information (which is required under S. 27(1)(c) of the regulation).
3. The following editorial corrections should be made:
 - In Section 3.0, it appears to us that the reference to "Golden-winged Warbler" is a typographic error, and was intended to read "Northern Ribbonsnake".
 - Similar to our 2nd bullet under Section B(3), regarding Section 3.1.2, snapping turtle is listed on the SARO list, not the ESA. While the SARO list in effect when the ESA was passed was indeed appended to the ESA, it has been (and will continue to be) updated. It is therefore, less confusing to always reference the SARO listing not the ESA.
 - In Section 3.2, presumably the 2 subsequent field work dates should be added.

D. Environmental Impact Study:

1. The extent of fencing should be made clear both in the text and mapping, not only to facilitate reviews of potential impacts, but also to ensure a common understanding when the project proceeds to construction. From Table 3.1, the reader would infer that fencing will surround the entire property. However, Section 4.2 states that "*there will be no fences separating the seepage areas from the surrounding woodlands or other natural habitats.*" Furthermore, Section 4.3.2 states that "*The fence ... will not be installed through the animal movement corridor*". But it also states that "*The fence may restrict wildlife movement from the animal movement corridor onto the Project location*"

While the Preliminary Layout is not clear enough to substantiate the 1st statement above under Section 4.3.2, it more clearly does not demonstrate the 2nd statement. The text and mapping should be revised for clarity, so that potential wildlife impacts are clear.

2. If the proponent decides to apply the newly released Wetland Assessment process set out in Appendix C of MNR's draft "Natural Heritage Guide for Renewable Energy Projects", the Preliminary Layout must be revised to exclude all of the wetland from development and activities.
3. Regarding Section 4.1.1, we wonder about the intent of the 2nd bullet, and how the proponent would be considering directing wildlife off the project location.
4. In Section 4.1.2, we are not able to locate text addressing whether or not mowing of vegetation will occur. If this is proposed the impacts analysis should address this activity.
5. In various subsections under Section 4, there are references to making the construction workforce and maintenance workforce "*aware of the potential for wildlife occurring on the Project location*". We support such actions, but stress that such educational efforts need to be specific and directly related to the sensitive species, and their habits and habitats.
6. Section 4.3.1 states that there are potential negative effects and proposed mitigation measures identified in the Waterbodies EIS. All mitigation measures associated with that report that relate positively or negatively to natural heritage values must be incorporated into this EIS, for example any measures that could affect the seepage areas.
7. Regarding Section 6 of the EIS, similar to our above comment, all mitigation measures identified in the Construction Plan Report that relate positively or negatively to natural heritage values must be incorporated into this EIS.
8. The Preliminary Layout plan should be clearer regarding the location of fencing (as previously discussed). Furthermore, the legend should clarify the intent of the yellow line and the pale blue line.

I am leaving later today for Christmas vacation, returning Tuesday, January 4, 2011. Please don't hesitate to call me on my return if you wish to discuss any aspect of our comments. We look forward to resolution of our concerns and the submission of your final reports, so that we can provide you with the needed confirmation letter.

Sincerely,

Dorothy Shaver

Dorothy Shaver
District Planner

c.c Tom Hockin, Northland Power;
Erin Cotnam, SR, MNR;
Rebecca Dickson, SR, MNR.

McRae, Elizabeth

From: Shaver, Dorothy (MNR) [dorothy.shaver@ontario.ca]
Sent: Friday, February 18, 2011 3:38 PM
To: Male, Sean
Cc: Tom Hockin; Dixon, Rebecca (MNR); Tran, Phung (MNR)
Subject: February 18 2011 MNR response_ Burks Falls East
Attachments: February 18 2011 MNR response_ Burks Falls East.doc

Hi Sean:

See our attached response letter. While the revised reports address almost all our December comments, unfortunately the new text includes some points requiring clarification or revision.

As noted in my attached letter, I will likely be required to work away from the office and be unavailable for 2 weeks starting February 28. However, I will be available to issue a confirmation letter if the revised reports reach me by early afternoon on the 25th.

We look forward to our issuance of a confirmation letter. Let me know if there's anything you wish to discuss.

Dorothy



February 18, 2011

Sean Male, REA Co-ordinator
HATCH

Dear Mr. Male:

SUBJECT: Burk's Falls East Solar Project: Natural Heritage Reports (rev. Jan. 26, 2011)

We have reviewed the revised Natural Heritage Assessment reports that you sent to us on January 26, 2011. While almost all the concerns we identified in our December 20, 2010 letter have been addressed, we see a number of new points that need to be clarified or corrected.

A. Records Review Report:

1. Figure 1.1 (p.5) should be revised to distinguish between the 2 identified "wetland" categories.

B. Site Investigation Report:

1. There is a significant typographical error in the Appendix B letter from David Stephenson and Kevin Dance. We believe that it should be dated 2011 not 2010.
2. The Ontario Wetland Evaluation System citation to this letter is inappropriate as a reference; it is the **Northern** Manual that is applicable, not the Southern Manual.

The copy of this letter in the Evaluation of Significance Report also contains these errors

C. Evaluation of Significance Report:

1. In Section 4.1.3, the 5th bullet point on page 11 should not state that the wetland is "*non-Provincially significant*" since this was not satisfactorily demonstrated. Rather, it should state that the wetlands are being treated as PSW; this is line with Sections 5 and 6 of this report.

D. Environmental Impact Study:

1. Section 1.2 (p.10) must include the wetland as a significant natural heritage feature, in line with Pages 12-13 of the Evaluation of Significance Report.
2. Section 4.1.1 (p.13) should read "*in*" in the 3rd line (not "*of*") since it is our understanding that the proponents are not planning construction of Milksnake habitat.
3. In Section 4.1.1 (p.14), the 3rd bullet point should clarify that wildlife will be removed "*out of harms way*", to reflect that it will be moved only as far as necessary.
4. In Section 4.3.1.1 (p.19), the 2nd bullet point should be revised to the intent of "**decrease sedimentation**".
5. Section 4.3.1.3 (p.20) should read "*will*" instead of "*should*" in the 2nd paragraph, to ensure implementation of your recommendation.

Continuation on Page 2 ...

Page 2 ...

6. Re Section 4.3.1.3, the 8th bullet point on page 21 should be revised to reflect that vegetation species are not “*approved*” by MNR. We recommend the reference instead be that a native species mix appropriate for this area will be used.
7. Regarding the Preliminary Layout Plan, we continue to ask for clarification as to the intent of 2 lines: these are now coloured black and pale blue.

On receipt of these reports with the above corrections and clarifications, we will send out the confirmation letter. I note that I will likely be working away from this office and unavailable for several weeks starting February 28, but can quickly provide a confirmation letter until 4:30 p.m. on Friday, February 25.

Sincerely,

Dorothy Shaver
District Planner

c.c. Tom Hockin, Northland Power
Rebecca Dixon, SR, MNR.

February 25, 2011

Sean Male, REA Co-ordinator
HATCH
4342 Queen Street, Suite 500
Niagara Falls, Ont.
L2E 7J7

Dear Mr. Male:

SUBJECT: Burk's Falls East Solar Project: Natural Heritage Reports (rev. Feb. 24, 2011)

In accordance with the Ministry of the Environment's (MOE's) Renewable Energy Approvals Regulation (O.Reg.359/09), the Ministry of Natural Resources (MNR) has reviewed the natural heritage assessment and environmental impact study submitted by Northland Power for the Burk's Falls East Solar Project located in Armour Township.

In accordance with Sections 28(2) and 38(2)(b) of the Renewable Energy Approvals (REA) regulation, MNR provides the following confirmations following our review of the natural heritage assessment and environmental impact study reports (as dated February 24, 2011):

1. The MNR confirms that the determination of the existence of natural features and the boundaries of natural features was made using applicable evaluation criteria or procedures established or accepted by MNR.
2. The MNR confirms that the site investigation and records review were conducted using applicable evaluation criteria or procedures established or accepted by MNR.
3. The MNR confirms that the evaluation of the significance or provincial significance of the natural features was conducted using applicable evaluation criteria or procedures established or accepted by MNR.
4. The MNR confirms that the project location is not in a provincial park or conservation reserve.
5. The MNR confirms that the environmental impact assessment report has been prepared in accordance with procedures established by the MNR.

In accordance with Sections 28(3)(c) and 38(2)(c) of the REA regulation, we also note that in the Site Investigations Report and the Evaluation of Significance Report the 2 Appendix C maps should be relocated to immediately follow their respective cover pages.

MNR is providing this confirmation letter based on reviewing the information provided in your

Continued on Page 2 ...

Page 2 ...

natural heritage assessment reports. Applicants should be aware of the transition provisions under Section 62 of the amended REA regulation and fulfil natural heritage assessment requirements accordingly.

This confirmation letter is valid for the project as proposed in the natural heritage assessment and environmental impact study (dated February 24, 2011), 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 natural heritage assessment, MNR would need to undertake additional review of the natural heritage assessment.

Where specific commitments have been made by the applicant in the natural heritage assessment with respect to project design, construction, rehabilitation, operation, mitigation or monitoring, MNR expects that these commitments will be considered in MOE's Renewable Energy Approval decision and, if approved, be implemented by the applicant.

In accordance with Section 12(1) of the REA Regulation, this letter must be included as part of your application submitted to the MOE for a Renewable Energy Approval.

If you wish to discuss any part of this confirmation letter, please contact Dorothy Shaver, District Planner (telephone: 705-773-4231; e-mail: dorothy.shaver@ontario.ca).

Sincerely,



for
Andy Heerschap
District Manager
Parry Sound District

cc. Jim Beal, Renewable Energy Provincial Field Program Coordinator, Regional Operations Div'n, MNR;
Rebecca Dixon, Southern Region Planning Unit, MNR;
Narren Santos, Environmental Assessment and Approvals Branch, MOE

Ministry of Tourism and Culture

Culture Programs Unit
Programs and Services Branch
Culture Division
435 S. James St., Suite 334
Thunder Bay, ON P7E 6S7
Tel.: 807 475-1638
Fax: 807 475-1297

Ministère du Tourisme et de la Culture

Unité des programmes culturels
Direction des programmes et des services
Division de culture
Bureau 334, 435 rue James sud
Thunder Bay, ON P7E 6S7
Tél.: 807 475-1638
Télééc.: 807 475-1297



November 1, 2010

Kimberley Arnold
Hatch Ltd.
4342 Queen Street, Suite 500
Niagara Falls, ON L2E 7J7

RE: Burk's Falls East Solar Project

Location: Lots 13-14, Concession 6, Armour Township, District of Parry Sound

FIT #: F164P1F

MTC File #: HD00530

Dear Ms Arnold,

This letter constitutes the Ministry of Tourism and Culture's written comments as required by s. 22(3)(a) of O. Reg. 359/09 under the *Environmental Protection Act* regarding archaeological assessments undertaken for the above project.

Based on the information contained in the report you have submitted for this project, the Ministry believes the archaeological assessment complies with the *Ontario Heritage Act's* licensing requirements, including the licence terms and conditions and the Ministry's 1993 Archaeological Assessment Technical Guidelines. Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the report.*

The report recommends the following:

- “Over the course of the Stage 2 archaeological assessment, no materials with significant cultural heritage value or interest were noted. Accordingly, **Archaeological Research Associates Ltd.** feels that no further archaeological study of the area would be productive. It is recommended that the project be released from further heritage concerns. A **Letter of Concurrence** with these recommendations is requested.”

The Ministry is satisfied with these recommendations.

This letter does not waive any requirements which you may have under the *Ontario Heritage Act*. A separate letter addressing archaeological licensing obligations under the Act will be sent to the archaeologist who completed the assessment and will be copied to you.

This letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences.

Please feel free to contact me if you have questions or require additional information.

Sincerely,

Paige Campbell
Archaeology Review Officer
paige.campbell@ontario.ca

cc. Archaeological Research Associates Ltd.
Shari Prowse, ARO, GEA/REA Coordinator
Tom Hockin, Northland Power

*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 artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.

Ministry of Tourism and Culture

Culture Programs Unit
Programs and Services Branch
Culture Division
435 S. James St., Suite 334
Thunder Bay, ON P7E 6S7
Tel.: 807 475-1638
Fax: 807 475-1297
paige.campbell@ontario.ca

Ministère du Tourisme et de la Culture

Unité des programmes culturels
Direction des programmes et des services
Division de culture
Bureau 334, 435 rue James sud
Thunder Bay, ON P7E 6S7
Tél.: 807 475-1638
Télééc.: 807 475-1297
paige.campbell@ontario.ca



November 1, 2010

Paul Racher
Archaeological Research Associates Ltd.
pracher@arch-research.com

Dear Paul,

Re: Review and acceptance into the Ontario Public Register of Archaeology Reports the archaeological assessment report entitled "Stage 1 and 2 Archaeological Assessment, Burk's Falls East Solar Project (FIT-F164PIF) Lots 13-14, Concession 6 Township of Armour District of Parry Sound, Ontario" written October 2010, received on October 26, 2010

PIF: P007-247-2010

MTC: HD00530

This office has reviewed the above-mentioned report, which has been submitted to this Ministry as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c 0.18. This review is to ensure that the licensed professional consultant archaeologist has met the terms and conditions of their archaeological licence, that archaeological sites have been identified and documented according to the 1993 technical guidelines set by the Ministry and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario.

This Stage 1 and 2 archaeological assessment finds that although the property exhibited some areas of archaeological potential, the field survey of the property did not locate any archaeological sites. It is recommended that the project be released from further heritage concerns. The Ministry of Tourism and Culture concurs with these recommendations and accepts this report into the Ontario Public Register of Archaeology Reports.

Please feel free to contact me with any concerns or questions regarding this letter.

Yours,

Paige Campbell
Archaeology Review Officer
cc Shari Prowse, ARO, GEA/REA Coordinator
Kimberley Arnold, Hatch Ltd.
Tom Hockin, Northland Power

Appendix G

Correspondence with Municipalities

McRae, Elizabeth

From: Male, Sean
Sent: Wednesday, June 30, 2010 11:13 AM
To: deputyclerk@armourtownship.ca
Cc: clerk@armourtownship.ca; 334844; Tom Hockin
Subject: Project Description Report for Northland Power's proposed solar project within Armour Township
Attachments: H334844-0000-07-124-0005 - Burks Falls East - Rev D.pdf

Hi Karen,

Thank you for taking the time to talk with me today. I have attached a copy of the Project Description Report for Northland Power's proposed Burk's Falls East solar project within the Township of Armour for your review.

Hopefully, everything will work out for our proposed meeting next Friday at 10 a.m.

Thanks again,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5280

Fax: +1 905 374 1157

4342 Queen Street, Suite 500, Niagara Falls, Ontario, Canada, L2E 7J7

McRae, Elizabeth

From: wendy [clerk@armourtownship.ca]
Sent: Tuesday, July 27, 2010 11:04 AM
To: Male, Sean; 'Judy Kosowan'
Cc: 334844; 'Tom Hockin'; Arnold, Kimberley
Subject: RE: Confirmation of ARmour Council meeting July 27th, @ 7:00 p.m re Solar Energy Projects

Sean
Contact information for our local planning board
Southeast District Parry Sound District Planning Board
172 Ontario Street
P.O Box 269
Burk's Falls, On
POA 1C0
Attn: Linda Moyer
705-382-0739

Linda is only available Monday and Tuesday

For the other information you are requesting I suggest you research through the Canada Land Inventory mapping and soils mapping and there is a list of archaeological sites through the Ministry of Culture. MNR is your contact for all lakes data.

MNR local office is in Parry Sound at 705-773-4231

I do not have the Ministry of Culture contact information. I suggest you contact Ministry of Municipal Affairs and Housing as they will have contact information through the One Window Planning process.

Hope this helps,

Wendy

From: Male, Sean [<mailto:SMale@Hatch.ca>]
Sent: Monday, July 26, 2010 6:43 AM
To: wendy ; Judy Kosowan
Cc: 334844; Tom Hockin; Arnold, Kimberley
Subject: RE: Confirmation of ARmour Council meeting July 27th, @ 7:00 p.m re Solar Energy Projects

Hi Wendy and Judy,

In our meeting, we had discussed the possibility of local planning boards in the area and you confirmed that there were some. Is it possible to provide us for contact information for those planning boards?

Also, we are required under the Regulation to request any information the municipality may have relating to natural features and water bodies. Beyond what may be shown in the official plan, does either municipality have any information in this regard?

I had stated that I would provide you with electronic copies of the Project Description Report and Municipal Consultation Form. Please find those attached.

Thanks Wendy,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: wendy [<mailto:clerk@armourtownship.ca>]
Sent: Wednesday, July 21, 2010 12:56 PM
To: Male, Sean; Tom.Hockin@northlandpower.ca
Cc: Judy Kosowan
Subject: Confirmation of ARMour Council meeting July 27th, @ 7:00 p.m re Solar Energy Projects

Hello Sean and Tom

I would like to confirm your attendance at the regular council meeting this Tuesday, July 27th at 7:00 p.m. Ryerson Council members have confirmed they will be in attendance to hear your presentation. Our council room is not equipped, so if you are presenting electronically please bring your computer, etc. If you wish to discuss further please contact me.

Thank you

Wendy Whitwell

Clerk Administrator

Township of Armour

clerk@armourtownship.ca

705-382-3332

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McRae, Elizabeth

From: Male, Sean
Sent: Wednesday, August 04, 2010 1:37 PM
To: wendy
Cc: Gibson, Melissa; Tom Hockin; 'deputyclerk@armourtownship.ca'; 334844; Mike Lord; Arnold, Kimberley; Monica Zhang
Subject: Northland Power's proposed Burk's Falls East solar project

Hi Wendy,

At the council meeting Tom and I attended recently, it was mentioned by one of the councillors that the property was a "heritage farm". Do you know anything about the designation to which he was referring? Is this a designation that the township has applied to this particular farm?

I have tried looking up heritage farms, but have only come up with the Century Farms program that is administered by the JFAO (<http://www.jfao.on.ca/what-we-offer/century-farm-signs/>).

Any help you can give in this regard would be greatly appreciated.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5280

Fax: +1 905 374 1157

4342 Queen Street, Suite 500, Niagara Falls, Ontario, Canada, L2E 7J7

McRae, Elizabeth

From: wendy [clerk@armourtownship.ca]
Sent: Monday, August 09, 2010 12:15 PM
To: Male, Sean; deputyclerk@armourtownship.ca; 'Judy Kosowan'
Cc: 334844; 'Tom Hockin'; Arnold, Kimberley; Gibson, Melissa
Subject: RE: Public Meeting Locations

Hi Sean

I spoke with Mellisa from your office this morning. Please find the enclosed statement regarding facilities.

To whom it may concern,

Re: Northland Power Solar – Burk's Falls East L.P.

Please be advised the Township of Armour does not have a facility, properly equipped to provide a meeting location ,within a reasonable distance of the project location. The Township believes the location suggested, the Armour Ryerson Burk'Falls Memorial Arena/ Community Centre, Karl Crozier Room, 220 Centre Street, Burk's Falls to be the only facility that will provide a central location, properly equipped for the required public meeting. The Council of the Township of Armour has no objection to this meeting location.

Thank you

Wendy Whitwell

Clerk Administrator

From: Male, Sean [<mailto:SMale@Hatch.ca>]
Sent: Thursday, August 05, 2010 6:20 AM
To: wendy ; deputyclerk@armourtownship.ca; Judy Kosowan
Cc: 334844; Tom Hockin; Arnold, Kimberley; Gibson, Melissa
Subject: Public Meeting Locations

Hi Wendy and Judy,

We had discussed public meeting locations at our meeting last month in relation to Northland Power's proposed solar projects within your municipalities. At that time, it was recommended by yourselves that we have a single public meeting at the arena in Burk's Falls, and I mentioned that I would need to confirm with the Ministry of the Environment whether a meeting in that location would be suitable since the regulation specifies meetings must be within the municipality of the project.

Unfortunately, I am now told that we must have the public meetings actually within your respective municipalities. As a result, it appears as though we will not be able to have a joint public meeting in the arena. Do you have any recommendations within the boundaries of your municipality that would be suitable for hosting this open house? Typically, we look for locations that are capable of holding around 100 people.

Thank you for your assistance,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5280

Fax: +1 905 374 1157

4342 Queen Street, Suite 500, Niagara Falls, Ontario, Canada, L2E 7J7

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H334844

August 12, 2010

Wendy Whitwell, Clerk
Township of Armour
56 Ontario Street, P.O.Box 533
Burk's Falls, ON P0A 1C0

Dear Ms. Whitwell:

**Subject: Notice of a Proposal and Notice of Public Meeting: Northland Power:
Burk's Falls East Solar Project**

Northland Power is proposing to construct a solar project in the Township of Armour, just southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power is undertaking a public consultation program in support of the Project and we would like to invite you to the upcoming Public Consultation Meeting. Please find attached a "Notice of a Proposal to Engage in a Renewable Energy Project and Notice of Public Meeting", which details the time and date of the planned meeting. This joint Notice will also be published in the *Almaguin News* on August 12, 2010 and August 19, 2010. The Public Consultation Meeting will provide the public with an opportunity to learn more about our Project proposal and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, a draft "Project Description Report" and associated information pertaining to this Project and about Northland Power can be found on-line at: www.northlandpower.ca/burksfallseast. We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280 Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,



Sean Male, M.Sc.
REA Coordinator

SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334680-0000-07-218-0036

McRae, Elizabeth

From: Male, Sean
Sent: Monday, August 16, 2010 10:41 AM
To: wendy
Cc: Robert Miller; Arnold, Kimberley; Tom Hockin; 334844; Gibson, Melissa
Subject: RE: Northland Power's proposed Burk's Falls East solar project
Attachments: Northland NOAP_Burks Falls_East_West_Final_3col.pdf

Hi Wendy,

Please find the notice attached which ran in the paper last week. You should be receiving a hard copy in the mail shortly, along with a copy of the Project Description Report for public review in the office.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: wendy [mailto:clerk@armourtownship.ca]
Sent: Monday, August 16, 2010 10:34 AM
To: Male, Sean
Cc: Robert Miller
Subject: RE: Northland Power's proposed Burk's Falls East solar project

Sean
Can you please forward me the notice for posting on our website.
Thanks,
Wendy

From: Male, Sean [mailto:SMale@Hatch.ca]
Sent: Monday, August 16, 2010 10:29 AM
To: wendy
Cc: Robert Miller; 334844; Tom Hockin; Arnold, Kimberley; Gibson, Melissa
Subject: RE: Northland Power's proposed Burk's Falls East solar project

Hi Wendy,

OK, thanks for the feedback.

The first public meeting will be September 18th, from 10 until 1 at the arena.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: wendy [mailto:clerk@armourtownship.ca]
Sent: Monday, August 16, 2010 10:26 AM
To: Male, Sean
Cc: Robert Miller
Subject: RE: Northland Power's proposed Burk's Falls East solar project

Sean
Yes, I would say the municipality does have an interest, but council would like to consider public input before making a recommendation. Do you have a date set for the 1st public meeting ?

Wendy

From: Male, Sean [mailto:SMale@Hatch.ca]
Sent: Friday, August 13, 2010 4:38 PM
To: wendy
Cc: Tom Hockin; 334844; Arnold, Kimberley
Subject: RE: Northland Power's proposed Burk's Falls East solar project

Hi Wendy,

At this point in time, we aren't sure whether there is a need to remove the homestead and barn, however, we would like to determine whether it is a possibility. Does the municipality have an interest in these features?

Thanks,

Sean

Sean K. Male, M.Sc.
Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: wendy [mailto:clerk@armourtownship.ca]
Sent: Tuesday, August 10, 2010 1:56 PM
To: Male, Sean
Subject: RE: Northland Power's proposed Burk's Falls East solar project

Sean

Do you know at this time if the homestead and barn are to be demolished as part of this project ?

Wendy

From: Male, Sean [mailto:SMale@Hatch.ca]
Sent: Monday, August 09, 2010 2:42 PM
To: wendy
Subject: RE: Northland Power's proposed Burk's Falls East solar project

Thanks Wendy.

-Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist, Environmental Assessment & Management
Tel: +1 905 374 0701 ext. 5280
Niagara Falls, ON

From: wendy [mailto:clerk@armourtownship.ca]
Sent: Monday, August 09, 2010 2:39 PM
To: Male, Sean
Subject: RE: Northland Power's proposed Burk's Falls East solar project

Sean
I will do some research from my end and get back to you
Wendy

From: Male, Sean [mailto:SMale@Hatch.ca]
Sent: Wednesday, August 04, 2010 1:37 PM
To: wendy
Cc: Gibson, Melissa; Tom Hockin; deputyclerk@armourtownship.ca; 334844; Mike Lord; Arnold, Kimberley; Monica Zhang
Subject: Northland Power's proposed Burk's Falls East solar project

Hi Wendy,

At the council meeting Tom and I attended recently, it was mentioned by one of the councillors that the property was a "heritage farm". Do you know anything about the designation to which he was referring? Is this a designation that the township has applied to this particular farm?

I have tried looking up heritage farms, but have only come up with the Century Farms program that is administered by the JFAO (<http://www.jfao.on.ca/what-we-offer/century-farm-signs/>).

Any help you can give in this regard would be greatly appreciated.

Thanks,

Sean

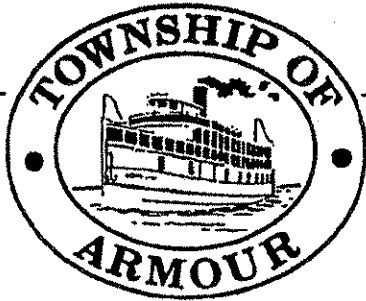
Sean K. Male, M.Sc.

Terrestrial Ecologist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5280
Fax: +1 905 374 1157
4342 Queen Street, Suite 500, Niagara Falls, Ontario, Canada, L2E 7J7

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DISTRICT OF PARRY SOUND

PO BOX 533
56 ONTARIO STREET
BURK'S FALLS, ON
POA 1C0

(705)382-3332
(705)382-2954

Fax: (705) 382-2068

Email: clerk@armourtownship.ca
Website: www.armourtownship.ca

OFFICE OF THE CLERK ADMINISTRATOR

August 24, 2010

Mr. Sean Male, M.Sc.
Hatch
Suite 500, 4342 Queen Street
Niagara Falls, On
L2E 7J7

Dear Mr. Male,

RE: BURK'S FALLS EAST SOLAR PROJECT
POSSIBLE DEMOLITION OF THE WATT FARMSTEAD

At the regular council meeting on August 24, 2010 council discussed the solar project proposed for Lot 13, Concession 6, and your question regarding councils' interest in the heritage features of this property.

In consideration of Section 2 (d) of the Planning Act, Section 2.6.1 of the Provincial Policy Statement and 4.3.2 (a) of the Township of Armour Official Plan council passed resolution No. 4 on August 24 as follows:

Moved by Jerry Brandt, Seconded by Marty Corcoran,
Whereas Hatch Limited and Northland Power have provided information to council regarding the proposed solar project for Lot 13, Concession 6,
Whereas this property is the Watt homestead, designated a century farm, complete with home, barn and various buildings,
Now Therefore the Council of the Township of Armour hereby request that a heritage and archeological impact assessment be completed to determine the cultural impact of losing the Watt family homestead. Carried

Thank you ,


Wendy Whitwell
Clerk Administrator

H334844

September 28, 2010

Wendy Whitwell, Clerk
Township of Armour
56 Ontario Street, P.O.Box 533
Burk's Falls, ON P0A 1C0

Dear Ms. Whitwell:

Subject: Notice of a Notice of Public Meeting: Northland Power: Burk's Falls East Solar Project

Northland Power is proposing to construct a solar project in the Township of Armour, just southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power has acquired additional lands for the Project and as a result is repeating the first public meeting in support of the Project, and we would like to invite you to the upcoming Public Consultation Meeting. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in the *Almaguin News* on September 30, 2010 and October 7, 2010. The Public Consultation Meeting will provide the public with an opportunity to learn more about our Project proposal and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, an updated draft "Project Description Report" and associated information pertaining to this Project and about Northland Power can be found online at: www.northlandpower.ca/burksfallseast. We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280 Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,

Sean Male, M.Sc.
REA Coordinator
SM:srg
Attachment: Notice of Public Meeting: Burk's Falls Eastcc: Mike Lord, Northland Power
Tom Hockin, Northland Power

McRae, Elizabeth

From: wendy [clerk@armourtownship.ca]
Sent: Wednesday, September 22, 2010 9:41 AM
To: Male, Sean
Subject: RE: Northland Power - Burk's Falls East Handout

Sean
OK I have pulled them. I will print out the revised when available.
Thanks,
Wendy

From: Male, Sean [<mailto:SMale@Hatch.ca>]
Sent: Wednesday, September 22, 2010 6:28 AM
To: clerk@armourtownship.ca
Subject: Northland Power - Burk's Falls East Handout

Hi Wendy,

At the meeting on Saturday I recall that you took some of our one-page handouts on the Project to have for people to take from the office. Would it be possible for you to remove those from public access? I realized that there was an error in the project boundary shown in the one-page handout. The correct boundary is shown in the copies of the poster boards.

I will send a revised PDF this week in case there is interest in having more available.

Thanks,

Sean

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H334844

March 7, 2011

Wendy Whitwell, Clerk
Township of Armour
56 Ontario Street, P.O.Box 533
Burk's Falls, ON P0A 1C0**Subject: Notice of Public Meeting - Northland Power Solar Burk's Falls East L.P - Burk's Falls East Solar Project**

Northland Power Solar Burk's Falls East L.P (hereafter referred to as "Northland") is proposing to construct a solar project in Township of Armour, just east of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland has retained Hatch to assist in fulfilling the requirements of the REA process.

As you are aware, Northland has initiated a public consultation program in support of the Project. This letter is inviting you to an upcoming Public Consultation Meeting. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in the *Almaguin News* on March 10, 2011 and again on April 14, 2011.

Along with an invitation to a Public Consultation Meeting, this letter is to provide notice that the supporting documents, as per Section 16 (1) of Ontario Regulation 359/09 are available for your review. These documents include the Natural Heritage Reports, Water Body Reports, Construction Plan Report, Design and Operation Report, Decommissioning Plan Report, Noise Assessment Study and Stage 1 and 2 Archaeology Assessment Report. As well, to aid in your review an executive summary is also provided. These reports are available on line at northlandpower.ca/burksfallseast and at the Township Armour municipal office. Further, the information provided in these reports will be discussed during the Public Consultation Meeting from 10:00am to 12:00pm on May 14, 2011 at the Armour, Ryerson and Burk's Falls Memorial Arena and Community Centre, 220 Centre Street, Burk's Falls, Ontario. We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,

Sean Male, M.Sc.
REA Coordinator
SM:mg

March 7th, 2011

Attachment: Notice of Public Meeting: Burk's Falls East Solar Project

CC: Mike Lord, Northland Power

Tom Hockin, Northland Power

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

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

Local Municipality (include each local municipality in which project location is situated) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Name of Municipality ARMOUR	Address 56 ONTARIO ST. Box 533 BURKS FALLS ON	Phone 705 382-3332	Clerk's Name WENDY WHITWELL	Clerk's Phone/Fax 705 382-3332 x	E-Mail Address clerke @armourtownship .ca
Upper Tier Municipality (include each upper tier municipality in which project location is situated) <input type="checkbox"/> Yes <input type="checkbox"/> No					
Name of Municipality NA	Address	Phone	Clerk's name	Clerk's Phone/Fax	E-Mail Address
Local roads area (include each local roads area in which project location is situated) <input type="checkbox"/> Yes <input type="checkbox"/> No					
Name of local roads board NA	Address	Phone	Secretary-treasurer's Name	Secretary-treasurer's Phone/Fax	E-Mail Address
Board Area (include each board area in which project location is situated) <input type="checkbox"/> Yes <input type="checkbox"/> No					
Name of Local Service Board NA	Address	Phone	Secretary's name	Secretary's Phone/Fax	E-Mail Address

Section 5: Consultation Requirement

5.1 - Project Location
Provide comment on the project location with respect to infrastructure and servicing. <i>Project location is serviced by Chetwynd Road, early consultation once timing of project construction has been determined, with the municipal office & Roads Supervisor is required.</i>
5.2 - Project Roads
Provide comment on the proposed project's plans respecting proposed road access. <i>- access from municipal road known as Chetwynd Road - year round maintained road, subject to seasonal load limits - any new access to subject lands will require approval by municipality</i>
Identify any issues and provide recommendations with respect to road access <i>- contact with municipal road supervisor to determine pre condition of Chetwynd Road & confirmation that road repair will be completed during construction by proponent, as required to maintain safe travel by the public at all times.</i>
Provide comment on any proposed Traffic Management Plans
Identify any issues and provide recommendations with respect to the proposed Traffic Management Plans

5.3 – Municipal or Local authority Service Connections

Provide comment on the proposed project plans related to the location of and type of municipal service connections, other than roads.

no municipal services.

Identify any issues and provide recommendations with respect to the type of municipal service connections, other than roads.

NA

5.4 – Facility Other

Identify any issues and recommendations with respect to the proposed landscaping design for the facility

Provide comment on the proposed project plans for emergency management procedures / safety protocols.

Identify any issues and recommendations with respect to the proposed emergency management procedures / safety protocols.

Identify any issues and recommendations with respect to any Easements or Restrictive Covenants associated with the Project Location

applicant / proponent to determine if these apply & supply information to the municipality.

5.5 Project Construction

Identify any issues and recommendations with respect to the proposed rehabilitation of any temporary disturbance areas and any municipal or local authority infrastructure that could be damaged during construction.

compliance with all applicable municipal bylaws including but not limited to noise bylaw, wetland preservation bylaw & overweight - & dimensional limits bylaw. Permits will be required for overweight loads.

Identify any issues and recommendations with respect to the proposed location of fire hydrants and connections to existing drainage, water works and sanitary sewers

NA

Identify any issues and recommendations with respect to the proposed location of buried kiosks and above-grade utility vaults

?

Identify any issues and recommendations with respect to the proposed location of existing and proposed gas and electricity lines and connections

no municipal comments. Comments should be provided by Trans Canada Pipeline & Ontario Hydro.

Provide comment on the proposed project plans with respect to Building Code permits and licenses.

application to be made to the Township of Armonk to secure a building permit prior to any site works/construction.

Identify any issues and recommendations related to the identification of any significant natural features and water bodies within the municipality or territory.

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

Require confirmation that although the Watt homestead & barn are located outside of the project location area these significant heritage structures will not be demolished as a result of this proposal.

H334844

August 12, 2010

Linda Mayer
South East Parry Sound District Board
172 Ontario Street, PO Box 269
Burk's Falls, ON P0A 1C0

Dear Ms. Mayer:

**Subject: Notice of a Proposal and Notice of Public Meeting: Northland Power:
Burk's Falls East Solar Project**

Northland Power is proposing to construct a solar project in the Township of Armour, just southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power is undertaking a public consultation program in support of the Project and we would like to invite you to the upcoming Public Consultation Meeting. Please find attached a "Notice of a Proposal to Engage in a Renewable Energy Project and Notice of Public Meeting", which details the time and date of the planned meeting. This joint Notice will also be published in the *Almaguin News* on August 12, 2010 and August 19, 2010. The Public Consultation Meeting will provide the public with an opportunity to learn more about our Project proposal and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, a draft "Project Description Report" and associated information pertaining to this Project and about Northland Power can be found on-line at: www.northlandpower.ca/burksfallseast. We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280 Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,

Sean Male, M.Sc.
REA Coordinator

SM:srg

Attachment: Notice of a Proposal/Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334680-0000-07-218-0036

H334844

September 28, 2010

Linda Mayer
South East Parry Sound District Board
172 Ontario Street, PO Box 269
Burk's Falls, ON P0A 1C0

Dear Ms. Mayer:

Subject: Notice of a Notice of Public Meeting: Northland Power: Burk's Falls East Solar Project

Northland Power is proposing to construct a solar project in the Township of Armour, just southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

Northland Power has acquired additional lands for the Project and as a result is repeating the first public meeting in support of the Project, and we would like to invite you to the upcoming Public Consultation Meeting. Please find attached a "Notice of Public Meeting", which details the time and date of the planned meeting. This Notice will also be published in the *Almaguin News* on September 30, 2010 and October 7, 2010. The Public Consultation Meeting will provide the public with an opportunity to learn more about our Project proposal and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, an updated draft "Project Description Report" and associated information pertaining to this Project and about Northland Power can be found online at: www.northlandpower.ca/burksfallseast. We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280 Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,

Sean Male, M.Sc.
REA Coordinator
SM:srg
Attachment: Notice of Public Meeting: Burk's Falls Eastcc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334844

March 7, 2011

Linda Mayer
South East Parry Sound District Board
172 Ontario Street, PO Box 269
Burk's Falls, ON P0A 1C0**Subject: Notice of Public Meeting - Northland Power Solar Burk's Falls East L.P - Burk's Falls East Solar Project**

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Please direct any correspondence(s) to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,

Sean Male, M.Sc.
REA Coordinator

March 7th, 2011

SM:mg

Attachment: Notice of Public Meeting: Burk's Falls East Solar Project

cc: Mike Lord, Northland Power

Tom Hockin, Northland Power

McRae, Elizabeth

From: Linda Moyer [seplanningbd@bellnet.ca]
Sent: Tuesday, May 17, 2011 2:36 PM
To: Male, Sean
Subject: Re: Northland Power Burk's Falls East Solar Project - Municipal Consultation Form

Hi Sean

As discussed, the Southeast Planning Board has no comment with respect to the proposed development. The Planning Board is the approval authority for consent and subdivision/condominium applications and does not provide comment on other development proposals within its member municipalities.

Linda Moyer
Secretary-Treasurer
SE Parry Sound District
Planning Board

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

From: [Male, Sean](#)
To: seplanningbd@bellnet.ca
Cc: [Tom Hockin](#) ; [334844](#)
Sent: Monday, May 02, 2011 12:39 PM
Subject: Northland Power Burk's Falls East Solar Project - Municipal Consultation Form

Hi Linda,

Thanks for taking the time to speak with me today.

As discussed, please find a copy of the municipal consultation form attached for your review. As discussed, if you have no comments, we would request a response indicating as much so that we can include that in our summary of consultation activities.

Also, as I mentioned, the Project reports are available at the Township of Armour municipal office, as well as on northland power's Project website at www.northlandpower.ca/burksfallseast.

Thanks,

Sean

Sean K. Male, M.Sc.

Terrestrial Ecologist/Environmental Assessment & Management



Tel: +1 905 374 0701 ext. 5280

Fax: +1 905 374 1157

4342 Queen Street, Suite 500, Niagara Falls, Ontario, Canada, L2E 7J7

NOTICE - This message from Hatch is intended only for the use of the individual or entity to which it is addressed and may contain information which is privileged, confidential or proprietary. Internet communications cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, arrive late or contain viruses. By communicating with us via e-mail, you accept such risks. When addressed to our clients, any information, drawings, opinions or advice (collectively, "information") contained in this e-mail is subject to the terms and conditions expressed in the governing agreements. Where no such agreement exists, the recipient shall neither rely upon nor disclose to others, such information without our written consent. Unless otherwise agreed, we do not assume any liability with respect to the accuracy or completeness of the information set out in this e-mail. If you have received this message in error, please notify us immediately by return e-mail and destroy and delete the message from your computer.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 10.0.1209 / Virus Database: 1500/3610 - Release Date: 05/02/11

Appendix H

List of Aboriginal Communities from Ministry of the Environment

Ministry of the Environment

Environmental Assessment and
Approvals Branch

2 St. Clair Avenue West
Floor 12A
Toronto ON M4V 1L5
Tel.: 416 314-8001
Fax: 416 314-8452

Ministère de l'Environnement

Direction des évaluations et des
autorisations environnementales

2, avenue St. Clair Ouest
Étage 12A
Toronto ON M4V 1L5
Tél. : 416 314-8001
Télééc. : 416 314-8452



July 30, 2010

MOE File #: NE-10-SF-0044

Mr. Michael Lord
Northland Power Inc.
30 St. Clair Avenue West, 17th Floor
Toronto ON M4V 3A1

Dear Mr. Lord:

RE: Director's Aboriginal Communities List – Burks Falls Solar Projects East and West

The Ontario Ministry of Environment has reviewed the information provided in the draft of the Project Description Report (PDR) received for the Burks Falls Solar Projects East and West. We have reviewed the anticipated negative environmental effects of the project (as described in the PDR) relative to our current understanding of the interests of aboriginal communities in the area.

In accordance with section 14 of the *Renewable Energy Approval Regulation* (O.Reg. 359/09), please find below the list of Aboriginal Communities that:

- i) have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project; or*
- ii) otherwise may be interested in any negative environmental effects of the project. (O. Reg 359/09 s14(b)(i) and (ii))*

Aboriginal Community
Common Name: Reserve Name: Contact Information:
Chippewas of Mnjikaning First Nation Chippewas of Rama Mnjikaning First Nation 32 5884 Rama Road, Suite 200, Rama, ON L0K 1T0 Phone (705) 325-3611 Fax (705) 325-0879
Beausoleil Chippewas of Christian Island Christian Island 30, General Delivery Cedar Point, ON L0K 1C0 Phone (705) 247-2051 Fax (705) 247-2239

Chippewas of Georgina Island Chippewas of Georgina Islands First Nation RR 2, PO Box 13 Sutton West, ON L0E 1R0 Phone (705) 437-1337 Fax (705) 437-4597
Shawanaga First Nation Shawanaga 17 RR 1 Nobel, ON P0G 1G0 Phone (705) 366-2526 Fax (705) 366-2740
Dokis Dokis 9 RR 1 Monetville, ON P0M 2K0 Phone (705) 763-2200 Fax (705) 763-2087
Magnetewan Magnetewan 1 PO Box 15, RR 1 Britt, ON P0G 1A0 Phone (705) 383-2477 Fax (705) 383-2566
Kawartha Nishnawbe Kawartha Nishnawbe First Nation P.O. Box 1432 Lakefield, ON K0L 2H0

NOTE: None of the foregoing should be taken to imply approval of this project or the contents of the draft of the *Project Description Report*. This response only addresses the requirement of the Director to provide a list of aboriginal communities to you as required in s. 14 of *O. Reg. 359/09*. You should also be aware that information upon which the above comments are 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 might require additional 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 public consultation, we would appreciate being notified.

Please contact Narren Santos at (416) 314-8442 should you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Doris Dumais". The signature is written in a cursive style with large, rounded loops for the first few letters.

Doris Dumais
Director
Environmental Assessment Approvals Branch
Ministry of Environment

cc: Mansoor Mahmood, Renewable Energy Team, Ministry of the Environment
Joe de Laronde, Aboriginal Affairs Branch, Ministry of the Environment

Appendix I

Letters to Aboriginal Communities

H334844

August 12, 2010

Chief Sharon Stinson Henry and Council
Chippewas of Mnjikaning First Nation, Chippewas of Rama
5884 Rama Road, Suite 200
Rama, ON L0K 1T0

Dear Chief Sharon Stinson Henry and Council:

Subject: Notice of Proposal and Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project

Northland Power is proposing to construct a solar project in the Township of Armour, southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

As part of the REA process (Section 14 (b) O. Reg. 359/09), the Ministry of the Environment (MOE) has provided Northland Power with a list of Aboriginal communities who, in the opinion of the MOE Director:

- 1) "have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project, or
- 2) otherwise may be interested in any negative environmental effects of the project".

Your community was included in the MOE's list and as such you will be included in our Project's consultation program and you will be provided with the reports and summaries required by Section 17 of Ontario Reg. 359/09, as soon as they are available.

Northland Power is commencing its public consultation program in support of the Project and we would like to invite you to the upcoming Public Consultation Meeting. Please find attached a "Notice of a Proposal to Engage in a Renewable Energy Project and Notice of Public Meeting", which details the time and date of the planned meeting. This joint Notice will also be published in the *Almaguin News* on August 12, 2010 and August 19, 2010. The Public Consultation Meeting will provide all stakeholders with an opportunity to learn more about our Project proposal and about Northland Power.

In accordance with Section 16 (3) of Ontario Reg. 359/09, a draft "Project Description Report" and associated information pertaining to this Project and about Northland Power can be found on-line at: northlandpower.ca/burksfallseast.

We respectfully request that your community provide (in writing) to us any information available that in your opinion, should be considered when preparing the reports required for the REA process, and in particular, any information the community may have regarding adverse impacts that this Project may have on constitutionally protected aboriginal or treaty rights, as well as any measures for mitigating those adverse impacts.

August 12, 2010

Correspondence should be directed to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701 Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

We thank you for your interest in this Project and look forward to your participation.

Yours truly,

A handwritten signature in black ink, appearing to read "Sean Male".

Sean Male, MSc, Environmental Coordinator,
Hatch Ltd.
sm:mg

Attachment: Notice of a Proposal/Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334844

August 12, 2010

Chief Roland Monague and Council
Beausoleil, Chippewas of Christian Island
Christian Island 30, General Delivery
Cedar Point, ON L0K 1C0

Dear Chief Roland Monague and Council:

Subject: Notice of Proposal and Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project

Northland Power is proposing to construct a solar project in the Township of Armour, southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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August 12, 2010

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Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
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Fax: 905-374-1157
Email: smale@hatch.ca

We thank you for your interest in this Project and look forward to your participation.

Yours truly,

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Sean Male, MSc, Environmental Coordinator,
Hatch Ltd.
sm:mg

Attachment: Notice of a Proposal/Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334844

August 12, 2010

Chief Donna Big Canoe and Council
Chippewas of Georgina Island, Chippewas of Georgina Island First Nation
RR 2, PO Box 13
Sutton West, ON L0E 1R0

Dear Chief Donna Big Canoe and Council:

Subject: Notice of Proposal and Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project

Northland Power is proposing to construct a solar project in the Township of Armour, southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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August 12, 2010

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Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701 Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

We thank you for your interest in this Project and look forward to your participation.

Yours truly,

A handwritten signature in black ink, appearing to read "Sean Male", with a stylized flourish at the end.

Sean Male, MSc, Environmental Coordinator,
Hatch Ltd.
sm:mg

Attachment: Notice of a Proposal/Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334844

August 12, 2010

Chief Patricia Pawis and Council
Shawanaga First Nation
RR 1
Nobel, ON P0G 1G0

Dear Chief Patricia Pawis and Council:

Subject: Notice of Proposal and Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project

Northland Power is proposing to construct a solar project in the Township of Armour, southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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We respectfully request that your community provide (in writing) to us any information available that in your opinion, should be considered when preparing the reports required for the REA process, and in particular, any information the community may have regarding adverse impacts that this Project may have on constitutionally protected aboriginal or treaty rights, as well as any measures for mitigating those adverse impacts.

August 12, 2010

Correspondence should be directed to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701 Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

We thank you for your interest in this Project and look forward to your participation.

Yours truly,

A handwritten signature in black ink, appearing to read "Sean Male".

Sean Male, MSc, Environmental Coordinator,
Hatch Ltd.
sm:mg

Attachment: Notice of a Proposal/Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334844

August 12, 2010

Chief Denise Restoule and Council
Dokis First Nation
RR 1
Monetville, ON P0M 2K0

Dear Chief Denise Restoule and Council:

Subject: Notice of Proposal and Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project

Northland Power is proposing to construct a solar project in the Township of Armour, southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

As part of the REA process (Section 14 (b) O. Reg. 359/09), the Ministry of the Environment (MOE) has provided Northland Power with a list of Aboriginal communities who, in the opinion of the MOE Director:

- 1) "have or may have constitutionally protected aboriginal or treaty rights that may be adversely impacted by the project, or
- 2) otherwise may be interested in any negative environmental effects of the project".

Your community was included in the MOE's list and as such you will be included in our Project's consultation program and you will be provided with the reports and summaries required by Section 17 of Ontario Reg. 359/09, as soon as they are available.

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Attachment: Notice of a Proposal/Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334844

August 12, 2010

Chief William Diabo and Council
Magnetewan First Nation
PO Box 15, RR1
Britt, ON P0G 1A0

Dear Chief William Diabo and Council:

Subject: Notice of Proposal and Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project

Northland Power is proposing to construct a solar project in the Township of Armour, southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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Attachment: Notice of a Proposal/Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334844

August 12, 2010

To Whom It May Concern
Kawartha Nishnawbe, Kawartha Nishnawbe First Nation
PO Box 1432
Lakefield, ON K0L 2H0

Dear To Whom It May Concern:

Subject: Notice of Proposal and Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project

Northland Power is proposing to construct a solar project in the Township of Armour, southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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Attachment: Notice of a Proposal/Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

September 27, 2010

Chief Sharon Stinson Henry and Council
Chippewas of Mnjikaning First Nation, Chippewas of Rama
5884 Rama Road, Suite 200
Rama, ON L0K 1T0

Subject: Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project

Further to our previous correspondence on this Project, Northland Power is proposing to construct a solar project in the Township of Armour, southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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Hatch Ltd.

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Attachment: Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

September 27, 2010

Chief Roland Monague and Council
Beausoleil, Chippewas of Christian Island
Christian Island 30, General Delivery
Cedar Point, ON L0K 1C0

Subject: Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project

Further to our previous correspondence on this Project, Northland Power is proposing to construct a solar project in the Township of Armour, southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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Hatch Ltd.

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Attachment: Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

September 27, 2010

Chief Donna Big Canoe and Council
Chippewas of Georgina Island, Chippewas of Georgina Island First Nation
RR 2, PO Box 13
Sutton West, ON L0E 1R0

Subject: Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project

Further to our previous correspondence on this Project, Northland Power is proposing to construct a solar project in the Township of Armour, southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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September 27, 2010

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Hatch Ltd.

sm:mg

Attachment: Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334844

September 27, 2010

Chief Dan Pawis and Council
Shawanaga First Nation
2 Village Road, RR 1
Nobel, ON P0G 1G0

Subject: Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project

Further to our previous correspondence on this Project, Northland Power is proposing to construct a solar project in the Township of Armour, southeast of the community of Burk's Falls. The proposed project is named the Burk's Falls East Solar Project (the "Project") and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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Attachment: Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

September 27, 2010

Chief Denise Restoule and Council
Dokis First Nation
RR 1
Monetville, ON P0M 2K0

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cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

September 27, 2010

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PO Box 15, RR1
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Attachment: Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

H334844

September 27, 2010

Kawartha Nishnawbe, Kawartha Nishnawbe First Nation
PO Box 1432
Lakefield, ON K0L 2H0**Subject: Notice of Public Meeting - Northland Power - Burk's Falls East Solar Project**

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Attachment: Notice of Public Meeting: Burk's Falls East

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

March 7, 2011

Chippewas of Mnjikaning First Nation
Chief and Council
Chippewas of Rama
5884 Rama Road, Suite 200
Rama, ON L0K 1T0
(705) 325-3611

Attention: Chief and Council:

Subject: Notice of Public Meeting & Documents for Review - Northland Power - Burk's Falls East Solar Project

As you are aware, Northland Power Solar Burk's Falls East L.P is proposing to construct a solar project within the Township of Armour. The proposed project is named the Burk's Falls East Solar Project and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approvals (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation (O. Reg.) 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

In accordance with Section 15 of O. Reg. 359/09, a Notice of Public Meeting has been prepared and a copy is enclosed. This Notice will be published in the *Almaguin News* on March 10, 2011 and again on April 14, 2011.

As per Section 17 (1) of O. Reg. 359/09, draft copies of the Project Description Report, supporting documents and executive summary are enclosed. We request that this information be made publically available to your community. Digital copies of these reports and information about the Burk's Falls East Solar Project can be found online at www.northlandpower.ca/burksfallseast. Representatives of Northland and Hatch will be available to discuss this information at the Final Public Consultation meeting from 10:00am to 12:00pm on Saturday May 14, 2011 at the Armour, Ryerson and Burk's Falls Memorial Arena and Community Centre, 220 Centre Street, Burk's Falls, Ontario.

We respectfully request that your community provide (in writing) to us any information available that in your opinion, should be considered when finalizing the enclosed reports, and in particular, any information the community may have regarding adverse impacts that this Project may have on constitutionally protected aboriginal or treaty rights, as well as any measures for mitigating those adverse impacts.

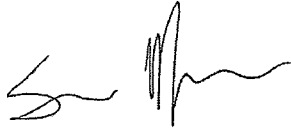
Your comments, queries or information relevant to the proposed Project would be greatly appreciated.

Correspondence should be directed to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701 Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

March 7, 2011

Yours truly,



Sean Male M.Sc,
REA Co-ordinator

SM:mg

Attachments

Notice of Public Meeting – Burk's Falls East Solar Project
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Draft Executive Summary – Burk's Falls East Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

March 7, 2011

Chippewas of Georgina Island First Nation
Chief and Council
Virginia Beach Marina Gas Bar
7751 Black River Road
Sutton West, ON L0E 1R0
(705) 437-1337

Attention: Chief and Council:

Subject: Notice of Public Meeting & Documents for Review - Northland Power - Burk's Falls East Solar Project

As you are aware, Northland Power Solar Burk's Falls East L.P is proposing to construct a solar project within the Township of Armour. The proposed project is named the Burk's Falls East Solar Project and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approvals (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation (O. Reg.) 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701 Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

March 7, 2011

Yours truly,



Sean Male M.Sc,
REA Co-ordinator

SM:mg

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Draft Executive Summary – Burk's Falls East Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

March 7, 2011

Beausoleil First Nation
Chief and Council
1 Ogema Street
Christian Island, ON L0K 1C0
(705) 247-2051

Attention: Chief and Council:

Subject: Notice of Public Meeting & Documents for Review - Northland Power - Burk's Falls East Solar Project

As you are aware, Northland Power Solar Burk's Falls East L.P is proposing to construct a solar project within the Township of Armour. The proposed project is named the Burk's Falls East Solar Project and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approvals (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation (O. Reg.) 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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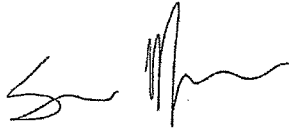
Your comments, queries or information relevant to the proposed Project would be greatly appreciated.

Correspondence should be directed to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701 Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,

March 7, 2011



Sean Male M.Sc,
REA Co-ordinator

SM:mg

Attachments

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Draft Executive Summary – Burk's Falls East Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

March 7, 2011

Shawanaga First Nation
Chief and Council
2 Village Road, RR#1
Nobel, ON P0G 1G0
(705) 366-2526

Attention: Chief and Council:

Subject: Notice of Public Meeting & Documents for Review - Northland Power - Burk's Falls East Solar Project

As you are aware, Northland Power Solar Burk's Falls East L.P is proposing to construct a solar project within the Township of Armour. The proposed project is named the Burk's Falls East Solar Project and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approvals (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation (O. Reg.) 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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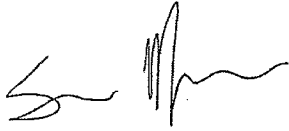
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4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701 Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,

March 7, 2011



Sean Male M.Sc,
REA Co-ordinator

SM:mg

Attachments

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Draft Executive Summary – Burk's Falls East Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

March 7, 2011

Kawartha Nishnawbe First Nation
Chief and Council
P.O. Box 1432
Lakefield, ON K0L 2H0
(705) 654-4661

Attention: Chief and Council:

Subject: Notice of Public Meeting & Documents for Review - Northland Power - Burk's Falls East Solar Project

As you are aware, Northland Power Solar Burk's Falls East L.P is proposing to construct a solar project within the Township of Armour. The proposed project is named the Burk's Falls East Solar Project and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approvals (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation (O. Reg.) 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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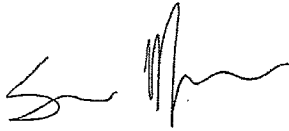
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Correspondence should be directed to:

Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701 Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

Yours truly,

March 7, 2011



Sean Male M.Sc,
REA Co-ordinator

SM:mg

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cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

March 7, 2011

Dokis First Nation
Chief and Council
940-A Main Street
P.O. Box 62
Via Monetville, ON P0M 2K0
(705) 763-2200

Attention: Chief and Council:

Subject: Notice of Public Meeting & Documents for Review - Northland Power - Burk's Falls East Solar Project

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Sean Male, M.Sc., REA Coordinator
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701 Ext 5280
Fax: 905-374-1157
Email: smale@hatch.ca

March 7, 2011

Yours truly,



Sean Male M.Sc,
REA Co-ordinator

SM:mg

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Draft Executive Summary – Burk's Falls East Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

March 7, 2011

Magnetewan First Nation
Chief and Council
10 Regional Road 529
P.O. Box 15, RR 1
Britt, ON P0G 1A0
(705) 383-2477

Attention: Chief and Council:

Subject: Notice of Public Meeting & Documents for Review - Northland Power - Burk's Falls East Solar Project

As you are aware, Northland Power Solar Burk's Falls East L.P is proposing to construct a solar project within the Township of Armour. The proposed project is named the Burk's Falls East Solar Project and will have an installed nominal capacity of 10 MW. This Project requires a Renewable Energy Approvals (REA) issued in accordance with the provisions of the Ontario *Environmental Protection Act* Part V.0.1 and Ontario Regulation (O. Reg.) 359/09. Northland Power has retained Hatch to assist in fulfilling the requirements of the REA process.

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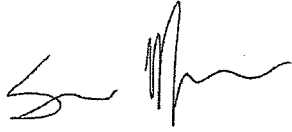
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Niagara Falls, ON, L2E 7J7
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Fax: 905-374-1157
Email: smale@hatch.ca

March 7, 2011

Yours truly,



Sean Male M.Sc,
REA Co-ordinator

SM:mg

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Draft Executive Summary – Burk's Falls East Solar Project

cc: Mike Lord, Northland Power
Tom Hockin, Northland Power

NOTICE OF PUBLIC MEETING
By Northland Power Regarding a Proposal
to Engage in a Renewable Energy Project

Project Name: Burk's Falls East Solar Project
Project Applicant: Northland Power Solar Burk's Falls East L.P.
Project Location: The Project is located on Chetwynd Road, approximately 4 km southeast of Burk's Falls.
Dated at the Township of Armour this the 10th of March, 2011

Northland Power is planning to engage in a renewable energy Project in respect of which the issuance of a renewable energy approval is required. The proposal to engage in this Project and the Project itself is subject to the provisions of the Environmental Protection Act (Act) Part V.0.1 and Ontario Regulation 359/09 (Regulation). This notice must be distributed in accordance with section 15 of the Regulation prior to applications being submitted and assessed for completeness by the Ministry of Environment.

This Public Meeting is being held to provide information on the proposed Project. The Meeting will be an Open House format.

Meeting Location:

Date: Saturday, May 14, 2011

Time: 10:00 am to 12:00 pm

Place: Armour, Ryerson and Burk's Falls Memorial
Arena/Community Centre
220 Centre Street, Burk's Falls, ON

Project Description:

Pursuant to the Act and Regulation, the facility, in respect of which this Project is to be engaged in, is a Class 3 Solar Facility. If approved, this facility would have a total maximum name plate capacity of 10 MW.

Documents for Public Inspection:

The Draft Project Description Report, titled *Project Description Report Northland Power Solar Burk's Falls East*, describes the Project as a solar electric generating facility that will utilize photovoltaic (PV) panels installed on fixed racking structures. DC electricity generated from the PV panels is converted to AC electricity by an inverter. The voltage level of the AC electricity produced by the inverter is stepped-up to distribution level voltages by a series of transformers.

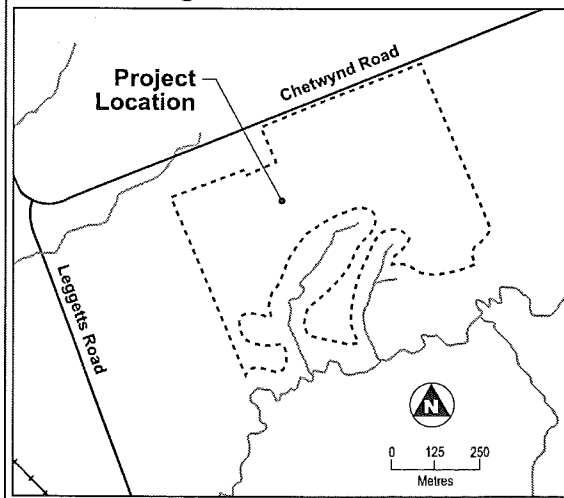
A written copy of the Draft Project Description Report was made available for public inspection on September 30, 2010 at www.northlandpower.ca/burksfallseast and at your local municipal office. Further, the applicant has obtained or prepared, as the case may be, supporting documents in order to comply with the requirements of the Act and Regulation.

Written copies of the draft supporting documents will be made available for public inspection on March 10, 2011 at your local municipal office, or www.northlandpower.ca/burksfallseast.

Project Contact and Information:

To learn more about the project proposals, public meetings or to communicate concerns, please contact:

Sean Male, MSc, Environmental Coordinator
Hatch Ltd.
4342 Queen Street, Suite 500, Niagara Falls, ON, L2E 7J7
Tel: 905-374-0701 ext. 5280 Fax: 905-374-1157
Email: smale@hatch.ca



Appendix J

Correspondence with Aboriginal Communities



Chippewas of RAMA
First Nation

5884 Rama Road, Suite 200
Rama, Ontario L0K 1T0
T 705.325.3611 F 705.325.0879

A Proud Progressive First Nation Community

November 10, 2010

Hatch Ltd.
4342 Queen Street, Suite 500
Niagara Falls, ON L2E 7J7

Attention: Sean Male, REA Coordinator

Re: Notice of Public Meeting—Northland Power—Burk's Falls East Solar Project

Dear Mr. Male:

As a member of the Williams Treaties First Nations, Rama First Nation acknowledges receipt of your letter of September 27, 2010, which was received on September 30, 2010.

A copy of your letter has been forwarded to Karry Sandy-McKenzie, Barrister & Solicitor, Coordinator for Williams Treaties First Nations for further review and response directly to you. Please direct all future correspondence and inquiries, with a copy to Rama First Nation, to Ms. Sandy-McKenzie at 8 Creswick Court, Barrie, ON L4M 2J7 or her e-mail address at k.a.sandy-mckenzie@rogers.com. Her telephone number is (705) 792-5087.

We appreciate your taking the time to share this important information with us.

Sincerely,



Chief Sharon Stinson Henry

c: Council, Rama First Nation
Jeff Hewitt, General Counsel
Karry Sandy-McKenzie, Coordinator Williams Treaties First Nations
Chief Roland Monague Portfolio Chief for Williams Treaties Nations



Beausoleil First Nation
Office of Council

One O-Gema Street
Christian Island, ON
L0K 1C0
705-247-2051 Fax: 705-247-2239

Chief Roland Monague, Chief Councillor Karry Sandy-McKenzie, Councillor Alfred Dan Monague,
Councillor C. Susan Copegog, Councillor Hector Copegog, Councillor B. Jeffrey Monague

August 20, 2010

Hatch
Suite 500, 4342 Queen Street
Niagara Falls, ON
L2E 7J7

**RE: Notice of Proposal and Notice of Public Meeting – Northland Power – Burke’s Falls
West Solar Project**

To: Mr. Sean Male, MSc, Environmental Coordinator

As a member of the Williams Treaties First Nations, Beausoleil First Nation acknowledges receipt of your letter dated August 12, 2010, which was received on August 19, 2010.

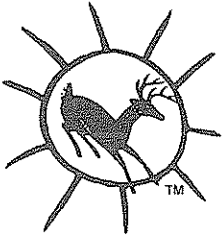
A copy of your letter has been forwarded to Karry Sandy-McKenzie, Barrister & Solicitor, Coordinator for Williams Treaties First Nations for further review and response directly to you. Mrs. Sandy-McKenzie’s address is 8 Creswick Court, Barrie, ON L4M 2J7, or by e-mail at k.a.sandy-mckenzie@rogers.com.

We appreciate your taking the time to share this important information with us.

Sincerely,

Chief Roland Monague
Beausoleil First Nation

c.c: Beausoleil First Nation Council
Karry Sandy-McKenzie, Coordinator Williams Treaties First Nations



Chippewas of RAMA
First Nation

5884 Rama Road, Suite 200

Rama, Ontario L0K 1T0

T 705.325.3611 F 705.325.0879

A Proud Progressive First Nation Community

September 16, 2010

Hatch Ltd.
4342 Queen Street, Suite 500
Niagara Falls, ON L2E 7J7

Attention: Sean Male, REA Coordinator

**Re: Notice of Proposal and Notice of Public Meeting—Northland Power—Burk's
Falls East and West Solar Projects**

Dear Mr. Male:

As a member of the Williams Treaties First Nations, Rama First Nation acknowledges receipt of your letter of August 12, 2010, which was received on August 18, 2010.

A copy of your letter has been forwarded to Karry Sandy-McKenzie, Barrister & Solicitor, Coordinator for Williams Treaties First Nations for further review and response directly to you. Ms. Sandy's address is 8 Creswick Court, Barrie, ON L4M 2J7, or by e-mail at k.a.sandy-mckenzie@rogers.com and her telephone number is (705) 792-5087.

We appreciate your taking the time to share this important information with us.

Sincerely,

Chief Sharon Stinson Henry

c: Council, Rama First Nation
Jeff Hewitt, General Counsel
Karry Sandy-McKenzie, Coordinator Williams Treaties First Nations
Chief Roland Monague, Portfolio Chief for Williams Treaties First Nations

SSH/sw



SHAWANAGA FIRST NATION

R. R. #1, Nobel, Ontario P0G 1G0
Tel: (705) 366-2526 • Tel: (705) 366-2576
Fax: (705) 366-2740

4 December 2007

To Whom It May Concern:

Dear Sir or Madam:

RE: FOR YOUR INFORMATION
CHANGE OF MAILING ADDRESS
FOR SHAWANAGA FIRST NATION

Please be advised our mailing address for our Chief and Council and the Administration and Finance Staff has changed to:

Shawanaga First Nation
2 Village Road
R. R. #1
Nobel, Ontario
P0G 1G0

Please note our office has not physically moved. Canada Post is requesting us to include our fire route address or mail might possibly be returned or delayed.

If there are any questions, please do not hesitate to call and either speak with Janet the Receptionist or Valerie Johnson, the Executive Assistant.

Respectfully,

A handwritten signature in cursive script that reads "Janet Nichols".

Janet Nichols
Receptionist
Shawanaga First Nation



Chippewas of RAMA
First Nation

5884 Rama Road, Suite 200
Rama, Ontario L0K 1T0

T 705.325.3611 F 705.325.0879

A Proud Progressive First Nation Community

November 10, 2010

Hatch Ltd.
4342 Queen Street, Suite 500
Niagara Falls, ON L2E 7J7

Attention: Sean Male, REA Coordinator

Re: Notice of Public Meeting—Northland Power—Burk's Falls East Solar Project

Dear Mr. Male:

As a member of the Williams Treaties First Nations, Rama First Nation acknowledges receipt of your letter of September 27, 2010, which was received on September 30, 2010.

A copy of your letter has been forwarded to Karry Sandy-McKenzie, Barrister & Solicitor, Coordinator for Williams Treaties First Nations for further review and response directly to you. Please direct all future correspondence and inquiries, with a copy to Rama First Nation, to Ms. Sandy-McKenzie at 8 Creswick Court, Barrie, ON L4M 2J7 or her e-mail address at k.a.sandy-mckenzie@rogers.com. Her telephone number is (705) 792-5087.

We appreciate your taking the time to share this important information with us.

Sincerely,



Chief Sharon Stinson Henry

c: Council, Rama First Nation
Jeff Hewitt, General Counsel
Karry Sandy-McKenzie, Coordinator Williams Treaties First Nations
Chief Roland Monague Portfolio Chief for Williams Treaties Nations

December 17, 2010

Chief Restoule,

It was a pleasure talking with you this past Wednesday, December 15, 2010. Further to our conversation, I am enclosing the original letters that were sent to you concerning our Burk's Falls East & Burk's Falls West projects.

As discussed, we would kindly ask that you confirm, in writing, that your First Nation community does not have an interest in these two projects. If you could you please address this note:

Tom Hockin
Development Manager, Renewables
Northland Power Inc.
30 St. Clair Avenue West, 17th Floor
Toronto, Ontario
M4V 3A1

If you prefer, you can forward this letter to Tom via email at tom.hockin@northlandpower.ca

Thank you for your attention to this matter.

Best regards and happy holidays!

Art Krause

December 17, 2010

Chief Bill Diabo,

It was a pleasure talking with you this past Wednesday, December 15, 2010. Further to our conversation, I am enclosing the original Project Description Reports for Northland Power's Burk's Falls East & Burk's Falls West solar power projects along with their respective cover letters, that were previously sent to you.

As discussed, we would kindly ask that you review this material and confirm, in writing, whether your First Nation community does or does not have an interest in these two projects. If you could please address your reply to:

Tom Hockin
Development Manager, Renewables
Northland Power Inc.
30 St. Clair Avenue West, 17th Floor
Toronto, Ontario
M4V 3A1

If you prefer, you can forward your reply to Tom via email at tom.hockin@northlandpower.ca. If you have any questions, or, if you would like to discuss any aspects of this project, please don't hesitate to contact me by reply email.

Thank you for your attention to this matter.

Best regards and happy holidays!

Art Krause

Tom,

Just got off the phone with Chief Bill Diabo (Magnetawan FN). There is a meeting of Chiefs of the Robinson Huron Treaty Area scheduled for Feb 1 & 2 where he intends to bring this matter forward. He asked that I call him next Friday when he expects to be able to provide a coordinated response from those chiefs.

Art

Art Krause
President & CEO
Environmental Communications Consulting Inc.
52 Elm Ridge Drive
Toronto, Ontario M6B 1A4

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DOKIS FIRST NATION

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January 5th, 2011

Tom Hockin
Development Manager, Renewables
Northland Power Inc.
30 St. Clair Ave. West
17th Floor
Toronto, ON M4V 3A1

Dear Mr. Hockin

Re: Burk's Falls East & Burk's Falls West Solar Projects.

The Dokis First Nation presently has no interest in these projects, and feel confident that any Environmental Assessment will address all issues of concerns regarding the land, vegetation and all species at risk that could be impacted by the projects.

Sincerely yours,

Chief Denise Restoule

From: Marlene Stiles [<mailto:mstiles@georginaisland.com>]
Sent: January 13, 2011 10:10 AM
To: Art Krause
Cc: Donna Big Canoe
Subject: Re: Northland Power's Burk's Falls East and Burk's Fall's West Solar Power Projects

Art,

Can you please forward to Tom.

Thank you for the information for review, but as discussed in our telephone conversation that we are getting bogged down with materials on these projects that are not even close to our First Nation territories. This is to confirm that in discussion with our Chief, neither of these two projects of Hatch are of interest to our First Nation.

Marlene Stiles

EDO

Chippewas of Georgina Island

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

From: [Art Krause](#)

To: [Marlene Stiles](#)

Sent: Tuesday, January 11, 2011 2:22 PM

Subject: Northland Power's Burk's Falls East and Burk's Fall's West Solar Power Projects

Marlene,

It was a pleasure talking with you earlier today. Further to our conversation, I am enclosing the original Project Description Reports for Northland Power's Burk's Falls East & Burk's Falls West solar power projects along with their respective cover letters, that were previously sent to Chief Donna Big Canoe and the Chippewas of Georgina Island First Nation Council.

As discussed, we would kindly ask that you review this material and confirm, in writing, whether your First Nation community does or does not have an interest in these two projects. If you could please address your reply to:

Tom Hockin
Development Manager, Renewables
Northland Power Inc.
30 St. Clair Avenue West, 17th Floor
Toronto, Ontario
M4V 3A1

If you prefer, you can forward your reply to Tom via email at tom.hockin@northlandpower.ca. If you have any questions, or, if you would like to discuss any aspects of this project, please don't hesitate to contact me by reply email.

Thank you for your attention to this matter.

Art Krause

From: Roly Monague [<mailto:rolymonague@chimnissing.ca>]
Sent: January 18, 2011 5:01 PM
To: Art Krause
Subject: RE: Northland Power's Burk's Falls East and Burk's Fall's West Solar Power Projects

Thanks Art for the attachments referencing your project. I did speak to Karry Sandy McKenzie today and she was aware of your call however required the documents again for her reference and advises she will respond accordingly..I have forwarded to her attention this date..

Chief Roland Monague

From: Art Krause [mailto:ask_ecci@sympatico.ca]
Sent: Tuesday, January 18, 2011 9:13 AM
To: Roly Monague
Subject: Northland Power's Burk's Falls East and Burk's Fall's West Solar Power Projects

Chief Roland Monague,

It was a pleasure talking with you this yesterday. Further to our conversation, I am enclosing the original Project Description Reports for Northland Power's Burk's Falls East & Burk's Falls West solar power projects along with their respective cover letters, that were previously sent to you.

As discussed, we would kindly ask that you review this material and confirm, in writing, whether your First Nation community does or does not have an interest in these two projects. If you, or Karry Sandy Mckenzie could please address your reply to:

Tom Hockin
Development Manager, Renewables
Northland Power Inc.
30 St. Clair Avenue West, 17th Floor
Toronto, Ontario
M4V 3A1

If you prefer, you can forward your reply to Tom via email at tom.hockin@northlandpower.ca. If you or Karry Sandy Mckenzie have any questions, or, if you would like to discuss any aspects of this project, please don't hesitate to contact me by reply email.

Thank you for your attention to this matter.

Best regards and happy holidays!

Art Krause

McRae, Elizabeth

From: Art Krause [ask_ecci@sympatico.ca]
Sent: Monday, January 31, 2011 12:48 PM
To: nicoleg@ramafirstnation.ca
Subject: RE: Northland Power - Burk's Falls East and West Solar Project
Attachments: Hatch Ltd Letter Nov 10, 2010.pdf

Nicole,

Thank you for leaving a message last Friday. Sorry I missed your call.

In your message you referred to a letter attached to your Jan 18/11 email. As you will see from the attached, it advises Northland Power that the matter should be referred to Karry Sandy-Mckenzie. It makes no mention of the Chippewas of Rama First Nation's position with respect to Northland Power's two solar project proposals near Burk's Falls.

We have made repeated attempts to connect with Ms. Sandy-Mckenzie, having left at least four voicemail messages for her. We have yet to get any kind of acknowledgement or response from her. That was the reason for my calling you and Chief Henry again in the hope you or Chief Henry might have better success in getting Ms. Sandy-Mckenzie to provide the Chippewas of Rama with an opinion concerning these two projects.

While we appreciate the coordinating role Ms. Sandy-Mckenzie provides with respect to the Williams Treaties First Nations, Northland Power received a letter from the Chippewas of Georgina Island (also members, as I understand, of the Williams Treaties First Nations), indicating that the Chippewas of Georgina Island have no concerns with respect to these two projects. It is our aim to obtain the same sort of correspondence from the Chippewas of Rama. However, if the Chippewas of Rama First Nation or the Williams Treaties First Nations have concerns with respect to these projects, we would like to have those concerns identified so we may begin to address them.

Any assistance you or Chief Henry could provide in moving this matter forward would be greatly appreciated. Thank you for your attention to this matter. If you have any questions, or, if you would like to discuss any aspects of these projects further, please don't hesitate to contact me by email or phone (416.781.7020).

Respectfully

Art Krause

From: Nicole Gray [<mailto:nicoleg@ramafirstnation.ca>]
Sent: January 18, 2011 2:49 PM
To: ask_ecci@sympatico.ca
Subject: Northland Power - Burk's Falls East Solar Project

Attached please find a copy of the letter you requested.

Thank you,
Nicole

Nicole Gray

Executive Assistant to the Chief, Administration

Chippewas of Rama First Nation

(ph) 705-325-3611 ext.1216

(cell)
(fax) 705-325-0879
(url) www.ramafirstnation.ca

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By submitting your or another individual's personal information to Chippewas of Rama First Nation, its service providers and agents, you agree and confirm your authority from such other individual, to our collection, use and disclosure of such personal information in accordance with our privacy policy.

 *Please consider the environment before printing this e-mail.*



Chippewas of RAMA
First Nation

5884 Rama Road, Suite 200
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A Proud Progressive First Nation Community

November 10, 2010

Hatch Ltd.
4342 Queen Street, Suite 500
Niagara Falls, ON L2E 7J7

Attention: Sean Male, REA Coordinator

Re: Notice of Public Meeting—Northland Power—Burk's Falls East Solar Project

Dear Mr. Male:

As a member of the Williams Treaties First Nations, Rama First Nation acknowledges receipt of your letter of September 27, 2010, which was received on September 30, 2010.

A copy of your letter has been forwarded to Karry Sandy-McKenzie, Barrister & Solicitor, Coordinator for Williams Treaties First Nations for further review and response directly to you. Please direct all future correspondence and inquiries, with a copy to Rama First Nation, to Ms. Sandy-McKenzie at 8 Creswick Court, Barrie, ON L4M 2J7 or her e-mail address at k.a.sandy-mckenzie@rogers.com. Her telephone number is (705) 792-5087.

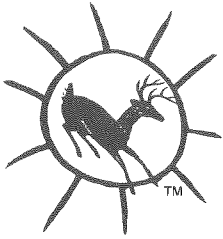
We appreciate your taking the time to share this important information with us.

Sincerely,



Chief Sharon Stinson Henry

c: Council, Rama First Nation
Jeff Hewitt, General Counsel
Karry Sandy-McKenzie, Coordinator Williams Treaties First Nations
Chief Roland Monague Portfolio Chief for Williams Treaties Nations



Chippewas of RAMA
First Nation

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A Proud Progressive First Nation Community

March 14, 2011

Hatch Ltd.
500-4342 Queen Street
Niagara Falls, ON L2E 7J7

Attention: Sean Male, REA Coordinator

Re: Notice of Public Meeting & Documents for Review—Northland Power—Burk's Falls East Solar Project

Dear Mr. Male :

As a member of the Williams Treaties First Nations, Rama First Nation acknowledges receipt of your letter of March 7, 2011, which was received on March 8, 2011.

A copy of your letter has been forwarded to Karry Sandy-McKenzie, Barrister & Solicitor, Coordinator for Williams Treaties First Nations for further review and response directly to you. Please direct all future correspondence and inquiries, with a copy to Rama First Nation, to Ms. Sandy-McKenzie at 8 Creswick Court, Barrie, ON L4M 2J7 or her e-mail address at k.a.sandy-mckenzie@rogers.com. Her telephone number is (705) 792-5087.

We appreciate your taking the time to share this important information with us.

Sincerely,

Chief Sharon Stinson Henry

c: Council, Rama First Nation
Jeff Hewitt, General Counsel
Karry Sandy-McKenzie, Coordinator Williams Treaties First Nations
Chief Roland Monague Portfolio Chief for Williams Treaties Nations

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