

Abitibi Solar Project

Natural Heritage Features

As per Ontario Regulation 359/09, both a records review and site investigation were conducted in order to identify environmental features of the Project site and surrounding area. A variety of features were identified and considered during this process, including but not limited to:

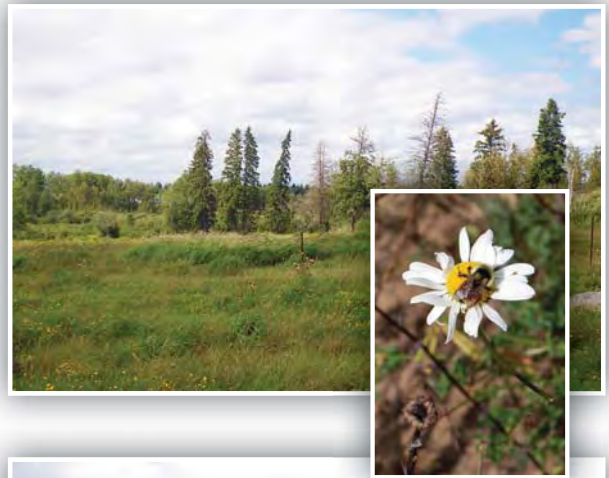
- Wildlife/Wildlife habitat
- Vegetation communities, including woodlands and wetlands
- Species at risk
- Waterbodies



Terrestrial Environment

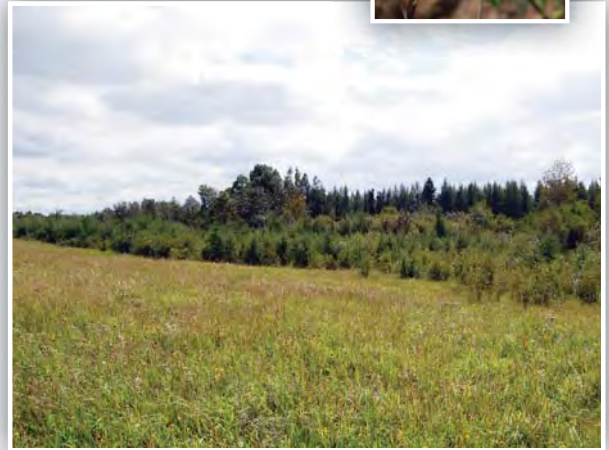
The Project Site contains equal amounts of agricultural field and woodlands. The majority of low lying woodland on the Project Site is dominated by black spruce, intermittent with balsam poplar, and upland areas consisting of a less-dense poplar species composition. The agricultural fields are primarily used for the production of hay.

Wildlife species observed during the site visit included ruffed grouse, raven, wood frogs, American toad, and spring peepers, although the site is known to be used by moose, gray wolf, and black bear throughout the year. No species currently listed on the Species at Risk Act or Endangered Species Act were recorded during the site investigation.



Aquatic Environment

Several low-lying wet areas with associated marsh habitat are located on the Project Site. These areas were found to provide breeding habitat for amphibian species like spring peeper, American toad, and wood frogs. An excavated drainage channel also runs from the centre of the site through the south woodlot to the southern Project Site boundary.



More information on the findings of these studies will be available in the Natural Heritage and Water Bodies Reports that will be posted to the project website (www.northlandpower.ca/northburgess). A notification will be mailed to those on the mailing list and published in the local newspaper when these are available.

Empire Solar Project

Project Location

The proposed Project is located on Lots 17,18 Concession 7, northeast of the Town of Cochrane. The proposed Project, if approved, will be constructed on privately owned lands.

Project Description

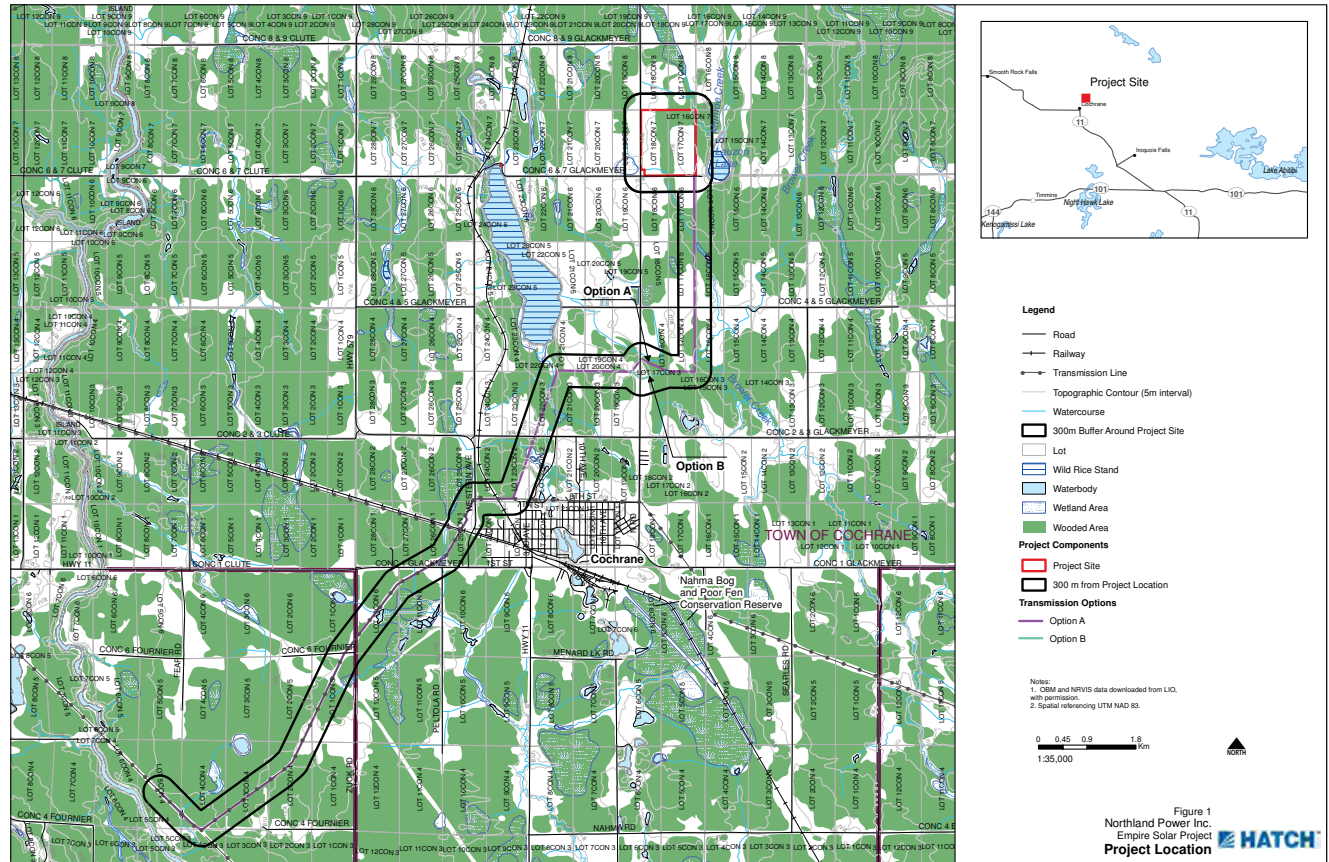
The proposed Empire Solar Project is considered to be a Class 3 solar facility, as defined under the Environmental Protection Act (Act) Part V.0.1 and Ontario Regulation 359/09. Class 3 solar facilities are defined as having a name plate capacity of 10 kilowatts (kW) or greater and the solar panels are mounted on the ground. Specifically, this proposed Project has a nameplate capacity of 10MW (ac).

The proposed Project will use crystalline technology photovoltaic (PV) panels installed on ground-mounted rack structures made of steel and aluminum. The panels will be tilted and fixed in place (i.e., they will not move to track the sun). The project will consist of approximately 50,000 panels and will be designed to optimize energy production.

Project Schedule – Empire Solar Project

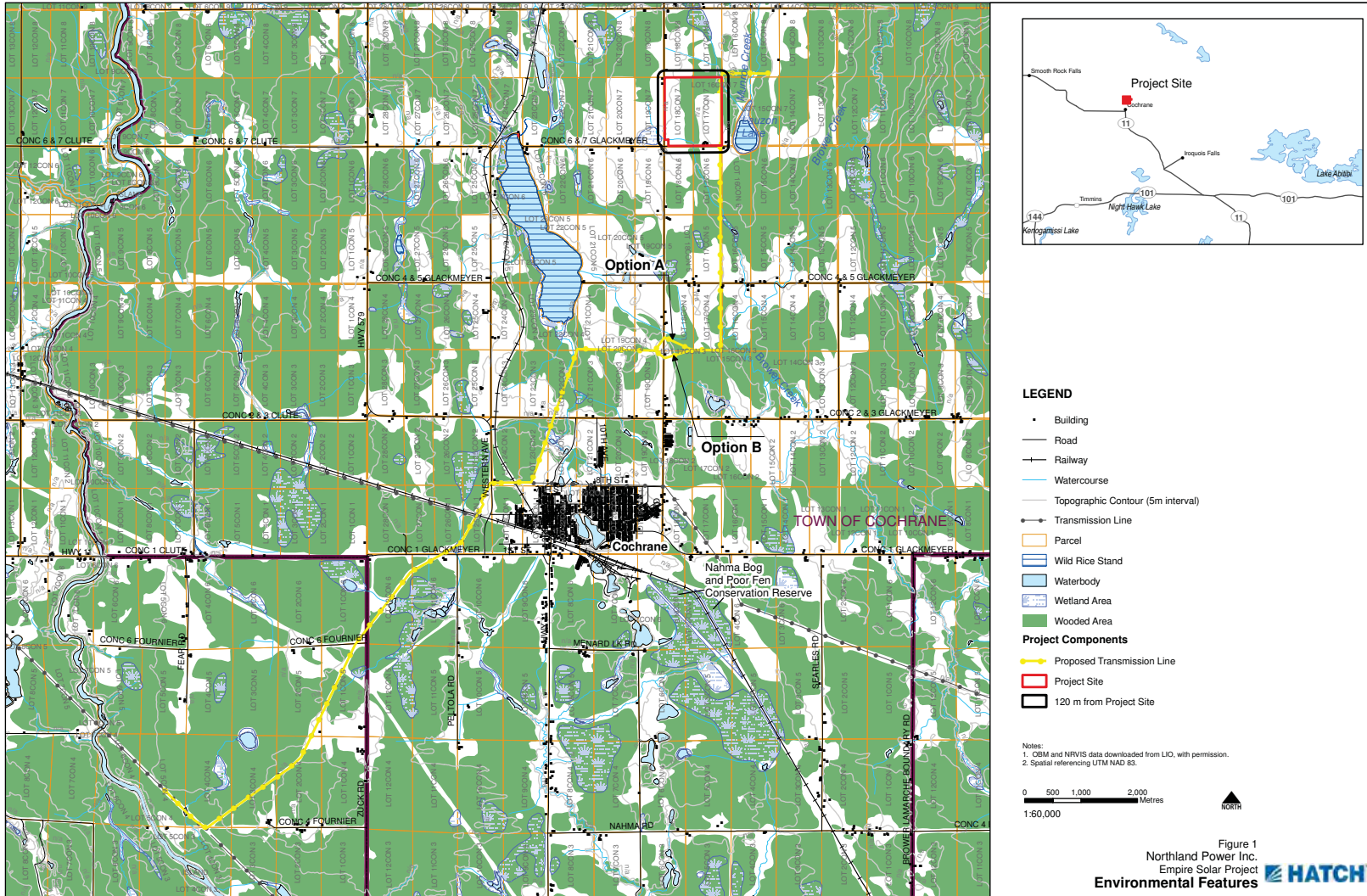
FIT Application – November 2009
Submission of Project Description to MOE – April 2010
FIT Contract Award – April 2010
First Public Meeting – July 2011
Second Public Meeting – November 2011
REA Application Submission – December 2011
REA Received – May 2012
Start of Construction – April/June 2012
Commercial Operation Date – October/December 2012

For more information regarding this Project please visit the Project website at northlandpower.ca/empire.



Empire Solar Project

Environmental Features



Empire Solar Project

Natural Heritage Features

As per Ontario Regulation 359/09, both a records review and site investigation were conducted in order to identify environmental features of the Project site and surrounding area. A variety of features were identified and considered during this process, including but not limited to:

- Wildlife/Wildlife habitat
- Vegetation communities, including woodlands and wetlands
- Species at risk
- Waterbodies



Terrestrial Environment

The Project Site consists of equal areas of agricultural field and woodlands. The woodlands located along the northern boundary and through the centre of the Project Site are typical Northern Ontario woodlands dominated by dense black spruce intermittent with upland areas of poplar species. Agricultural fields located on either side of the centre woodlot are primarily used in the production of hay.

Wildlife species observed during the site investigation included ruffed grouse, raven, wood frogs, green frogs, American toad, and spring peepers; although the area is known to be used by black bear, moose, and gray wolf throughout the year. No species currently listed on the Species at Risk Act or Endangered Species Act were observed during the site visit.

Aquatic Environment

Several vernal pools and small shallow wet areas are located throughout the woodlands containing riparian marsh habitat. A small creek runs along and exits the Project Site at the southern boundary, with a marsh area along the road on each side of the creek, providing breeding habitat for amphibian species such as wood frogs and spring peepers. A small tributary of Munroe Creek flows south through the northeastern property boundary, eventually draining into Lauzon Lake.



More information on the findings of these studies will be available in the Natural Heritage and Water Bodies Reports that will be posted to the project website (www.northlandpower.ca/northburgess). A notification will be mailed to those on the mailing list and published in the local newspaper when these are available.

Martin's Meadows Solar Project

Project Location

The proposed Project is located on Lot 16 Concession 8, northeast of the Town of Cochrane. The proposed Project, if approved, will be constructed on privately owned lands.

Project Description

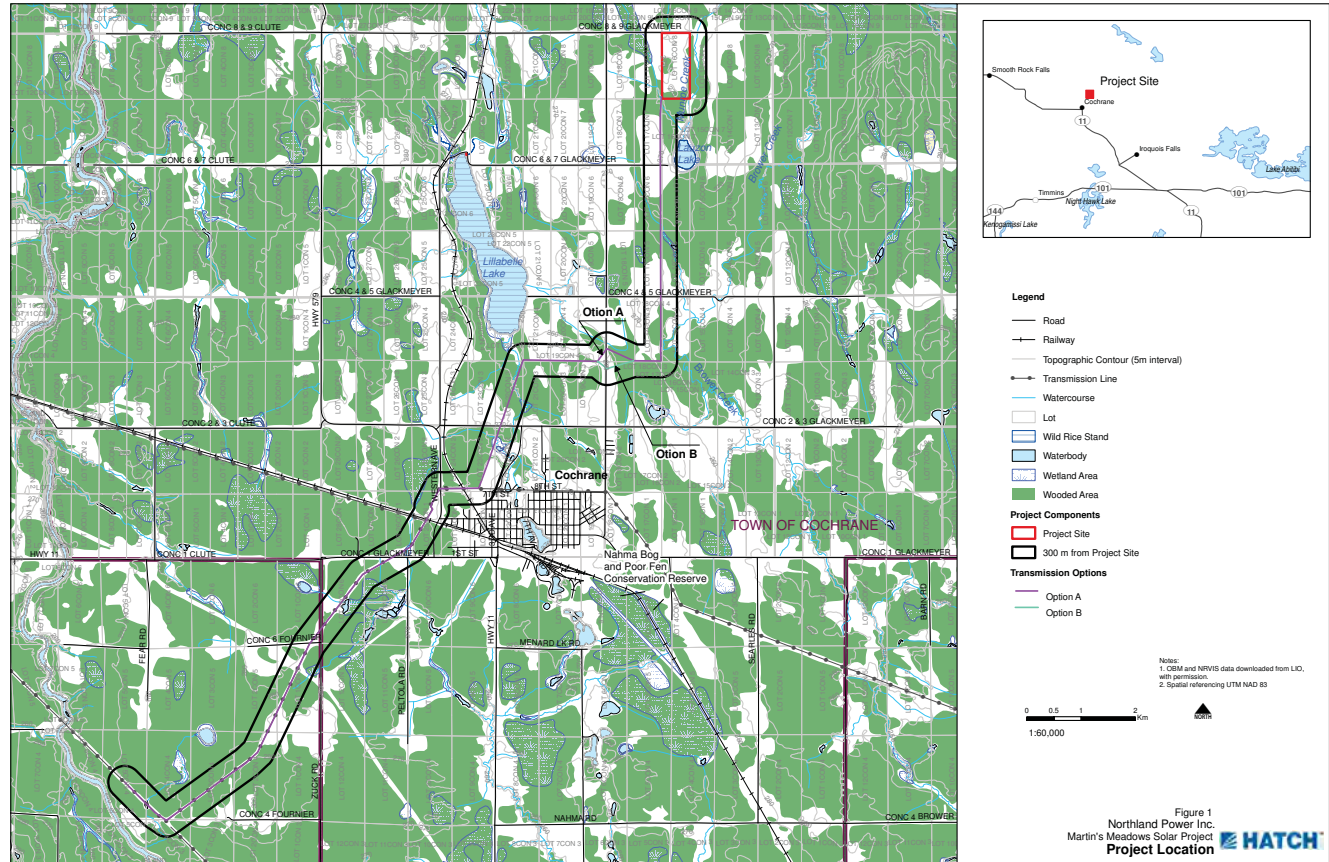
The proposed Martin's Meadows Solar Project is considered to be a Class 3 solar facility, as defined under the Environmental Protection Act (Act) Part V.0.1 and Ontario Regulation 359/09. Class 3 solar facilities are defined as having a name plate capacity of 10 kilowatts (kW) or greater and the solar panels are mounted on the ground. Specifically, this proposed Project has a nameplate capacity of 10MW (ac).

The proposed Project will use crystalline technology photovoltaic (PV) panels installed on ground-mounted rack structures made of steel and aluminum. The panels will be tilted and fixed in place (i.e., they will not move to track the sun). The project will consist of approximately 50,000 panels and will be designed to optimize energy production.

Project Schedule – Martin's Meadows Solar Project

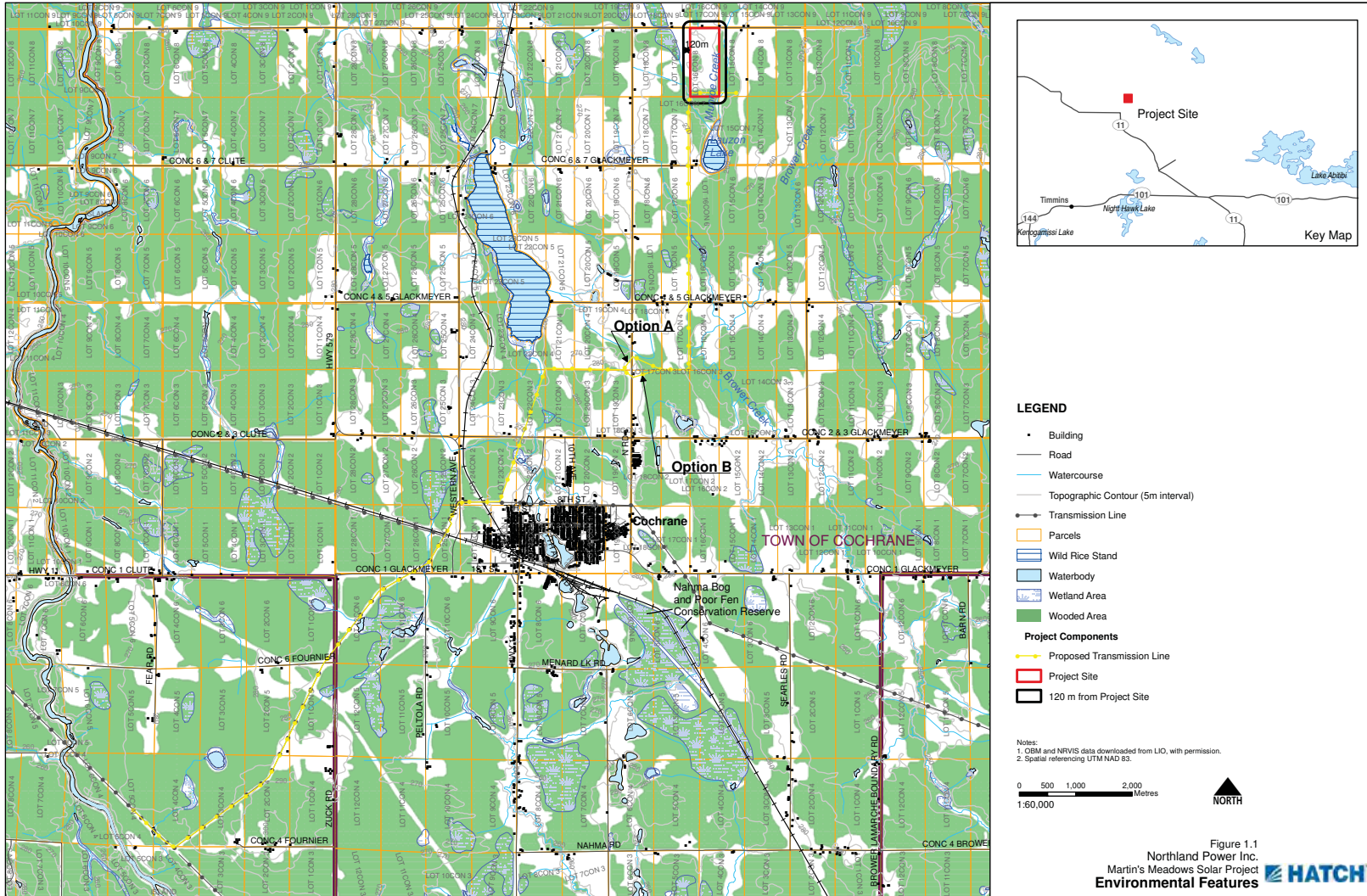
FIT Application – November 2009
Submission of Project Description to MOE – April 2010
FIT Contract Award – April 2010
First Public Meeting – July 2011
Second Public Meeting – November 2011
REA Application Submission – December 2011
REA Received – May 2012
Start of Construction – May 2012
Commercial Operation Date – December 2012

For more information regarding this Project please visit the Project website at northlandpower.ca/martinsmeadows.



Martin's Meadows Solar Project

Environmental Features



Martin's Meadow Solar Project

Natural Heritage Features

As per Ontario Regulation 359/09, both a records review and site investigation were conducted in order to identify environmental features of the Project site and surrounding area. A variety of features were identified and considered during this process, including but not limited to:

- Wildlife/Wildlife habitat
- Vegetation communities, including woodlands and wetlands
- Species at risk
- Waterbodies



Terrestrial Environment

The Project Site is primarily composed of agricultural field used in the production of hay. Woodland is located along the south and east Project Site boundary, with a small isolated wooded area along the western border. Woodland composition is typical of Northern Ontario consisting of mixed forest dominated by black spruce, and upland areas dominated by poplar species.

Wildlife species observed during the site investigation included raven, wood frog, green frog, American toad, and spring peeper. The area is known to be used by black bear, moose and gray wolf throughout the year. No species currently listed on the Species at Risk Act or Endangered Species Act were recorded during the site visit.



Aquatic Environment

No watercourses or water bodies are located directly on the Project Site. Munroe Creek is adjacent to the eastern boundary flowing south into Lauzon Lake, and has associated marsh habitat extending approximately 30m on both sides, providing breeding habitat for amphibian species. A small tributary of Munroe Creek also runs along the south west boundary of the Project Site.



More information on the findings of these studies will be available in the Natural Heritage and Water Bodies Reports that will be posted to the project website (www.northlandpower.ca/northburgess). A notification will be mailed to those on the mailing list and published in the local newspaper when these are available.

Environmental Effects

Potential Negative Environmental Effects and Mitigation Measures

Environmental Component	Potential Environmental Effect	Proposed Mitigation
Physiography/Topography	During construction, re-grading of excavated soils and some minor alterations to local topography may occur.	Decommissioning of the Project site will include regrading to original conditions, to the greatest extent possible.
Soils	Reductions in soil quality/loss of soils as a result of accidental spills, erosion and soil compaction during construction.	The use of erosion and sedimentation control, soil loosening, and spill prevention and response measures will limit the impact on soils.
Aggregate Resources	Not applicable.	Not applicable
Surface Water	Surface water quality of the watercourses could be impaired due to contamination from accidental spills or increased turbidity due to site erosion.	A 30-m setback will be put in place from all water bodies. As well, erosion and sedimentation control measures and spill prevention and response measures will decrease any further impacts.
Groundwater	Excavations may result in a minor, localized drop in the groundwater table due to dewatering. In addition, groundwater may also be impaired by contamination due to accidental spills.	Spill response measures will prevent any accidental spills. Dewatering during construction anticipated to be minimal.
Aquatic Habitats/Biota	The installation of the Project may result in indirect effects due to erosion and sedimentation and changes in surface water runoff.	30-m setbacks from all waterbodies will be implemented to protect surface water runoff quality. Stormwater management plan implemented to control surface runoff.
Areas of Natural and Scientific Interest (ANSI)	Not applicable as there are no ANSI identified within 300 m of the Project location.	Not applicable
Wetlands	Wetlands on and adjacent to the Project location may be indirectly affected by Project activities, such as the generation of dust during construction which could impact vegetation communities.	Mitigation measures proposed in respect of vegetation communities and surface water quality will be effective at mitigation potential effects on the wetland community.
Vegetation, including wooded areas	Vegetation clearing on agricultural land as well as within hedgerows will be required. Additional clearing within the wooded area may be required. Vegetation communities adjacent to the Project site may be indirectly affected by Project activities, such as the generation of dust during construction which could impact vegetation communities.	Work areas will be flagged to limit the extent of clearing. Clearing from wooded areas to be minimized where possible. Dust control measures will be implemented during the construction period.
Terrestrial Wildlife/Wildlife Habitat (including species at risk)	Potential loss of wildlife habitat and potential wildlife avoidance of the Project area during construction and operation may occur as a result of disturbance.	Work areas will be clearly marked and will not infringe further than necessary. Mitigation measures will include not clearing in bird breeding season, if required.
Air Quality	Reductions in local air quality from operation of construction equipment and dust displacement may occur due to vehicle traffic.	Through the use of standard best management practices and mitigation measures dust will be suppressed and discharge of exhaust minimized to maintain local air quality during construction.
Social Environment		
Land Use	Current land use will be discontinued within the Project footprint.	After decommissioning, there is a potential for the land to regain the past use.
Tourism and Recreation	Any tourism or recreational resources existing within the immediate Project vicinity will be considered in determining potential impacts.	Visual screening in those areas will be considered, if required.
Archaeological and Cultural Heritage Resources	Excavations during Project construction may result in the discovery of archaeological resources. Archaeological assessments will be conducted to determine potential. Potential heritage resources will be determined as per the requirements of the Ministry of Tourism and Culture.	Mitigation measures recommended as a result of the archaeological or heritage assessments, if required, will be implemented as required.
Sound Levels	Temporary disturbance to neighbouring residents may occur during construction. The operation of inverters and transformers may result in increased ambient sound levels.	Noise studies will be conducted as per O. Reg. 359/09 to ensure noise during operations meets provincial guidelines. Construction will be conducted according to local noise by-laws, where applicable.
Visual Landscape	Installation of the Project will result in a change to the local landscape.	Visual barriers may be installed, where necessary, if this is determined to be effective and viable.
Community Safety	Construction of the Project will result in a risk to community and workforce safety. During operation, potential risks to public safety are limited.	Safety procedures will be followed to ensure both worker and public safety.
Local Traffic	Construction of the Project may result in increased local area traffic and temporary disruption along routes used resulting in delays to the local community traffic, and increased traffic as a result of equipment delivery to the Project site.	Transportation routes will be determined to minimize the impact on local traffic.
Waste Management and Disposal Sites	Construction and operation of the Project will likely result in the generation of recyclable material, and municipal hazardous and sanitary waste.	The disposal and proper storage of wastes and recyclables will occur.

Next Steps

- All further Project Reports (such as the Construction Plan Report, Archaeological Assessment Report, etc) will be available for public review on the Project websites and at your local municipal office.
- The Notice of the availability of the reports and the Final Public Meeting will be advertised in the local paper and information will be sent to all those on the Project mailing list. You can be included on the mailing list by filling out a comment sheet with the appropriate mailing address.
- Finally, any written comments or concerns will be addressed within the Consultation Report as a part of the REA submission, which will be available for public review.



We appreciate your attendance at this first public meeting and hope to see you at the next one. Thank you.

Your opinion is important to us,

Please Sign in and Complete a Comment Sheet

Please Sign In

(PLEASE USE BLOCK LETTERS)

Northland Power – First Public Meeting

Project: Abitibi, Empire and Martin's Meadows Solar Projects

Date: Wednesday July 27, 2011

Name	Complete Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
JACK MOORE	444 GENIER RD.	COCHRANE	POL 1C0	705-272-3431
DEMI & JOCELYNE PROMOVOSK	1320 CON 6	GLACKMEYER TWP	BOX 2408 POL 1C0	705-272-3931
Wenno Smyt, Reg. MARIN	1341 CON 6	GLACKMEYER TWP	BOX 476 POL 1C0	705-272-6883
CAROLYN STRUYK	BOX 1201	COCHRANE	POL 1C0	705-272-5580
KATHY & JEAN GENIER	RR3, Box 3114	COCHRANE	POL 1C0	705-272-2821
ADRIAN & MARGARET STRUYK	RR3	COCHRANE	POL 1C0	705-272-5672
ROLAND GIRARD	908 GLACKMEYER	COCHRANE	POL 1C0	705-272-6191
ANNETTE & DAVID TUNNEY	RR3 - CONC. #2	GLACKMEYER	POL 1C0	(705) 272-2325
COLIN & TRINERS		THESSALON	POR 1L0	705-542-3019
DEAN G. GATIEN	150 REG. RD. 10	WHITEFISH	POM 3E0	705-866-2825
FOR HOOGENHOUT	804, Hwy 579,	COCHRANE	POL 1C0	705-272-5691

* Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review

Please Sign In

(PLEASE USE BLOCK LETTERS)

Northland Power – First Public Meeting

Project: Abitibi, Empire and Martin's Meadows Solar Projects

Date: Wednesday July 27, 2011

Name	Complete Mailing Address			Phone <small>(Please include area code)</small>
	Street	City	Postal Code	
Rick MARTIN		COCHRANE	POL 1C0	705-271-5358
Jeffrey Martin		cochrane	POL 1C0	705-272-5510
Rod Gemmed		Cochrane	POL 1C0	272-5128
Kathy Hutzhinson David		Cochrane		272-4429

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Please Sign In

(PLEASE USE BLOCK LETTERS)

Northland Power – First Public Meeting

Project: Abitibi, Empire and Martin's Meadows Solar Projects

Date: Wednesday July 27, 2011

Name	Complete Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Keith Lessard	Cree	Cochrane		272 6168
Monika Malherbe	531 Genier Rd	"		3007
GERRY COURVILLE	P.O. Box 1027	COCHRANE	PO100	272-8904
R. Buchler	R.R. 3	✓	✓	272-4094
Jennifer Telford		Cochrane		
Charlotte Johnson	425 Hwy 579	"		

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Comment Sheet

First Public Meeting: Wednesday July 27, 2011

Northland Power –Abitibi, Empire and Martin's Meadows Solar Projects

1. Please indicate whether your interest is pertinent to one or both of the proposed Project(s) by circling one or both of the following:

Abitibi

Empire

Martin's Meadows

2. Please describe where you reside in relation to the Project location(s)? _____

concession to lot 16 Blackmeyer.
lot is located in front of the Project

3. Please provide any relevant information related to the Project location(s) which, in your opinion, should be considered in assessing the potential effects of the Project(s)?

Powerline is on my property line

How far from a house can a line be installed?

How far from the road ~~will~~ will the panel be installed.

Continued on back



4. Please provide any comments, questions or concerns related to the Project(s).

Concerned about the powerline location

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name: Jocelyne and Denis Pronovost

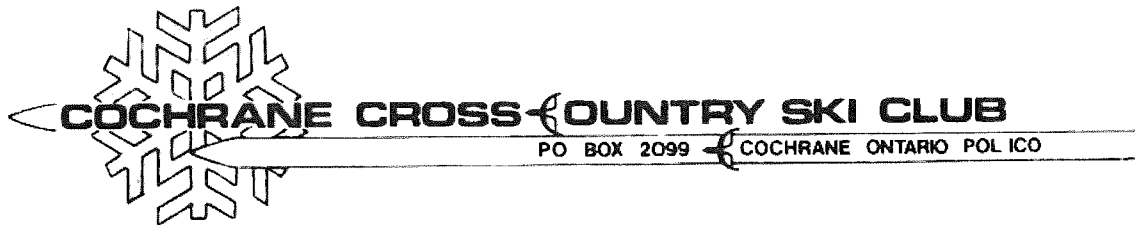
Mailing Address (including your postal code):
Box 2408
Cochrane, ON P0L 1C0

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Alternatively, if you prefer to mail/fax your response, please do so within 30 days to:
Sean Male, Environmental Coordinator
4342 Queen St, Suite 500, Niagara Falls, Ontario, L2E 7J7
Phone: 905-374-5200 Fax: 905-374-1157

For more information regarding the Projects please refer to northlandpower.ca

*** Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review**



July 27, 2011

Sean Male, M.Sc.
Environmental Coordinator, Hatch Ltd.

Re: Proposed Powerline – Cochrane Area – Northland Power Solar Project

The Cochrane Cross-Country Ski Club has a history of over 35 years on the Johnson property to the west of the Golf Course as well as town land north of the golf course up to concession 2/3 Glackmeyer twp. The club is very active and the location is ideal for skiers of all ages.

The powerline proposed by Northland Power compromises the integrity of these trails. It is essential that cross-country ski trails be located in protected treed areas. Protection is required from the cold winter winds and blowing snow. Trails must also be protected from snowmobile traffic.

Up to now, the Ski Club has functioned very well in conjunction with existing snowmobile trails and adjacent to the golf course.

The proposed power line enters on town property at the north end (concession 2/3 Glackmeyer) and continues south parallel to the west side of the golf course. This proposal will open up the trails at the north to snowmobile traffic along the powerline. It will also expose the existing snowmobile trails and the golf course to the entrance and the first kilometre of the main ski trail.

This will essentially render a significant portion of the trails unsuitable for skiing.

The Cochrane Cross-Country Ski Club strongly recommends that an alternative route be explored.

Yours truly,

Kathy Hutchinson-David
President

Comment Sheet

First Public Meeting: Wednesday July 27, 2011

Northland Power –Abitibi, Empire and Martin’s Meadows Solar Projects

1. Please indicate whether your interest is pertinent to one or both of the proposed Project(s) by circling one or both of the following:

Abitibi

Empire

Martin’s Meadows

2. Please describe where you reside in relation to the Project location(s)? _____

LOT 28, CONCESSION 3
GLACKMEYER

3. Please provide any relevant information related to the Project location(s) which, in your opinion, should be considered in assessing the potential effects of the Project(s)?

THE 3 PROJECTS TAKE VALUABLE
FARM LAND OUT OFF PRODUCTION,
PLUS THE TRANSMISSION LINE WILL HAVE
ADDED ISSUES & COST.

Continued on back



4. Please provide any comments, questions or concerns related to the Project(s).

WOULD IT BE FEASIBLE TO CONSIDER
PROPERTY IN TOURNAI TWP.
CLOSE TO THE MAIN HOOK UP ON
THE HIGH VOLTAGE LINE.
A LOT OF INPUT COSTS WOULD
BE SAVED.
E.A. - TRANSMISSION LINE → "VERY SHORT."
- CHEAPER LAND

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name: JOE HOOGENHOUT

Mailing Address (including your postal code):

#804, Hwy 579,
CORNWALL, ONTARIO P0L-1C0

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Alternatively, if you prefer to mail/fax your response, please do so within 30 days to:

Sean Male, Environmental Coordinator
4342 Queen St, Suite 500, Niagara Falls, Ontario, L2E 7J7
Phone: 905-374-5200 Fax: 905-374-1157

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