

APPENDIX C
AGENCY CONSULTATION

GENERAL

Muriel Kim

From: Tami Sugarman
Sent: November 19, 2010 10:25 AM
To: Liu, Amy [CEAA]; ellen.cramm@ontario.ca; kelly.withers@dfo-mpo.gc.ca; EnviroOnt@tc.gc.ca; EACoordination_ON@inac-ainc.gc.ca; melanie_lalani@hc-sc.gc.ca; Rob.Dobos@ec.gc.ca; EA-SPI/EE-ISP@nrcan.gc.ca; tim.mutter@ontario.ca; gerry.webber@ontario.ca; ruth.debicki@ontario.ca; heather.roberts@ontario.ca; dan.tovey@ontario.ca; amy.gibson@ontario.ca; David.Pickles@ontario.ca; greg.godin@ontario.ca; janet.ronne@city.timmings.on.ca; clerks@timmins.ca
Cc: Ed Laratta; Vanesa Enskaitis; Philippa McPhee; pnorris@owa.ca; Rob Steele
Subject: Xeneca Power Development Inc. proposed The Chute waterpower project on the Ivanhoe River - Project Description Document Notice
Attachments: Xeneca Project Description Cover Let Nov 2010.pdf; Wesa FTP service.doc
Importance: High

Good morning:

On behalf of Xeneca Power Corporation Inc. we are pleased to provide you with the attached letter of introduction and directions to accessing and downloading the project description document for the proposed Xeneca Power Corporation Inc. waterpower development at The Chute Project site located on the Ivanhoe River in northeastern Ontario. Xeneca has been awarded a Feed-in Tariff (FIT) contract for this site by the Ontario Power Authority (OPA).

You are included on our email list as you have been identified as the one-window contact for your organization and are listed as such on the Contact List for the project. We ask that you distribute this information to colleagues within your organization that should be involved in the planning process. If the main contact for your organization is someone other than you please inform us at EAinfo@oel-hydrosys.ca as soon as possible so that our staff can update the contact list accordingly.

We have elected to distribute this document in electronic format for environmental reasons. You may access our FTP site by completing the following instructions:

Site: <ftp://clientftp.wesa.ca>
Username: XENECA
Password: WESA.2010

An attached word document guide will assist you with the download process. You will need to activate passive mode in your Internet Explorer browser to be able to access the FTP site behind our corporate firewall.

Aboriginal communities located nearby will also be receiving this notice directly from Xeneca's First Nation and Aboriginal Relations Liaison, Mr. Dean Assinewe.

A hard paper copy and/or CD Rom copy of the project description document will be issued shortly to federal agencies and Aboriginal communities.

Other Parties: If you require a paper and/or CD Rom copy in addition to this electronic copy please notify us at EAinfo@oel-hydrosys.ca otherwise we will assume that this electronic version is adequate.

We are pursuing an Ontario Class Environmental Assessment for Waterpower Projects planning process for this site. A federal screening may also be triggered at the site. The proposed The Chute GS development site is located upstream from another proposed waterpower project Xeneca's Third Falls Hydroelectric Generating

Station. The Ivanhoe River development sites are located approximately 30 km apart and are interpreted to be independent of each other based on hydrology and biology. We have therefore decided to pursue a separate Class Environmental Assessment for Waterpower Projects planning process for each site.

The project description is intended to provide an overview of the project components, general information on the project setting and relevant background information on the project. This Project Description is also designed to assist the proponent in ensuring that all aspects of the project are accounted for in enough detail to allow the public, Aboriginal communities and government agencies to provide meaningful comment throughout the Class EA process. The information will allow you to identify your environmental assessment and regulatory requirements associated with the project. It will also allow a federal authority to determine if there is potential for the *Canadian Environmental Assessment Act (CEAA)* to be triggered by the project proposal and whether the agency will be a Responsible Authority (RA) under *CEA Act* or whether it is able to provide technical expertise as an expert advisor (FA).

It is our intention to schedule a proponent-agency EA coordination meeting as soon as possible. We hope that this project description document will assist you in preparing for this meeting, the purpose of which is to discuss the following items in the context of the project's proposed schedule;

- applicable policies and procedures administered by each agency (list of statutes and regulations) and list of required approvals for the project;
- a comprehensive list of values and issues of concern/benefit identified with the site and the project (natural, socio-cultural, economic);
- data and information collection procedures; and,
- a consultation and engagement plan.

We trust this submission is adequate for these purposes. Please do not hesitate to contact us with any questions or clarifications.

Respectfully submitted on behalf of Xeneca Power Corporation Inc.,

Tami Sugarman and Philippa McPhee, EA Project Managers
OEL-HydroSys Inc.

Muriel Klm

From: Karen Fortin
Sent: January 5, 2011 10:11 AM
To: 'dave.bell@ceaa-acee.gc.ca'; 'alan.rowlinson@dfo-mpo.gc.ca'; 'EnviroOnt@tc.gc.ca'; 'EACoordination_ON@inac-ainc.gc.ca'; 'Rob.Dobos@ec.gc.ca'; 'ellen.cramm@ontario.ca'; 'tim.mutter@ontario.ca'; 'gerry.webber@ontario.ca'; 'jennifer.lillie-paetz@ontario.ca'; 'amy.gibson@ontario.ca'; 'David.Pickles@ontario.ca'; 'roch.pilon@ontario.ca'; 'janet.ronne@city.timmins.on.ca'; 'sect@onlink.ca'
Cc: Tami Sugarman; Vanesa Enskaitis; Philippa McPhee
Subject: Notice of a Public Information Centre - Xeneca's Proposed Ivanhoe River Waterpower Developments
Attachments: Ivanhoe River PIC - Jan11.pdf; Ivanhoe River PIC - Jan11 -French.pdf

Good morning;

This is to notify you that Xeneca will be hosting a public information centre (PIC) for its proposed waterpower developments on the Ivanhoe River (The Chute, Third Falls) in Foleyet on January 13, 2010. The PIC will be held at the Foleyet Community Hall from 4-8pm.

Advertisements for the PIC were/are scheduled to appear in the Timmins Daily Press in both English and French on or around December 31st 2010, and January 7, 2011. Copies of the advertisement are enclosed; tear sheets from all advertisements will be provided in the record of consultation as part of the environmental assessment report.

Representatives from Xeneca and the members of the project team will be on hand for the event.

Should you require additional information about the PIC, please contact:

Vanesa Enskaitis

Public Affairs Liaison
Xeneca Power Development Inc.
5160 Yonge Street, Suite 520
Toronto, ON M2N 6L9
T: 416-590-9362 X 104
F: 416-590-9955
E: venskaitis@xeneca.com

Regards,

Karen

Murlel Kim

From: Environmental Assessment Information
Sent: March 22, 2011 9:55 AM
To: 'Alan Rowlinson'; 'Bill Guthrie'; 'Brett Smith'; 'Dave Bell'; 'Ed Snucins'; 'Ellen Cramm'; 'Haya Finan'; 'Helen Kwan'; 'Lianne Kentish'; 'Mohammad Sajjad Khan'; 'Paul Bernier'; 'Rob Dobos'
Cc: Tami Sugarman; 'dgreen@nrsl.on.ca'; Ed Laratta
Subject: Surface Water Quality Monitoring Program, 2010 and call for Technical Reviewers
Attachments: SB8931-03 Feb 24-2011 The Chute LetRept.pdf; SB8931 Feb 24-2011 Third Falls LetRept.pdf

Good morning,

In support of the proposed Ivanhoe River Waterpower Projects being developed by Xeneca Power Development Inc. we are pleased to provide you with the baseline surface water quality investigation reports. This report documents the results of the surface water monitoring program undertaken through the 2010 field season at the project sites.

The proponent is also planning to release additional supporting documentation according to the following schedule:

Hydrology Review – week of March 21st
Operating Plan – week of March 21st
Existing Conditions report – available
Archaeological Stage 1 Summary Report – week of March 28th or earlier

Could you please advise which reports you would be interested in receiving along with the number of copies and in what format (FTP, CD-ROM, hard copy) and any other persons that should be receiving these reports at this time.

An EA Coordination meeting, will be scheduled soon for these projects. At other EA coordination meetings hosted by Xeneca it was determined that a technical review committee comprised of qualified persons from regulatory review bodies should be formed. If you or an associate is interested in participating as a technical reviewer for one or both of these projects, please provide the contact(s) name and contact information. We will soon begin to schedule the technical committee meetings. Two focused technical meetings are planned for early spring; the first is tentatively being scheduled for mid-April to discuss the Hydrology Review and Operating Plan. A meeting to discuss surface water quality and habitat assessment requirements is also required. This second meeting may be held concurrent to the first meeting or, if necessary as a separate discussion. Please indicate which meeting you or someone from your organization would be interested in participating in.

Regards,

Pilar

Pilar DePedro

From: Environmental Assessment Information
Sent: March-31-11 1:52 PM
To: 'Alan Rowlinson'; 'Bill Guthrie'; 'Brett Smith'; 'Caitlin Scott'; 'Dave Bell'; 'David Pickles'; 'Ed Snucins'; 'Ellen Cramm'; 'Gerry Webber'; 'Haya Finan'; 'Heather Boyer'; 'Helen Kwan'; 'Janet Ronne'; 'Jennifer Lillie Paetz'; 'Katherine Kirzati'; 'Lianne Kentish'; 'Mel Ling Chen'; 'Mohammad Sajjad Khan'; 'Narren Santos'; 'Paul Bernier'; 'Paul Marleau'; 'Rob Dobos'; 'Sheila Derasp'; 'Simon Spooner'
Cc: Tami Sugarman; Philippa McPhee; Ed Laratta; mholmes@xeneca.com
Subject: EA Coordination meeting for Xeneca's proposed The Chute and Third Falls projects, April 19, Meeting Location and Teleconference Details
Attachments: Xeneca EA Coordination Meeting Draft AGENDA.DOC

Good afternoon,

An EA coordination meeting in support of Xeneca's proposed **The Chute and Third Falls** waterpower projects on the Ivanhoe River will be held on **April 19, 2011** in the Poplar Boardroom at the MNR Northeast Regional Office, Ontario Government Complex, 5520 Hwy.101 East, A Wing (2nd floor), P.O. Bag 3020, South Porcupine, PON 1H0. A Draft Agenda is attached for your comment by April 5th.

The meeting will begin at 10am and continue through until sometime mid afternoon.

A light lunch will be provided in order that we may continue working through the lunch hour. If you will be joining us in person, please notify us so that we can finalize the details for catering. If you will be joining us by teleconference, we ask that you are also able to continue through the working lunch.

Please respond as soon as possible to confirm your participation in this event.

Teleconferencing details are as follows:

Toll free: 1-866-797-9101
Conference ID: 4093876

Should you encounter any difficulties connecting to the conference call please contact;

Tami Sugarman	613-894-3509
Pilar DePedro	613-816-0704

Please have a copy of the project description issued by Xeneca for the meeting, since we will be referring to this document.

This invitation is being issued on behalf of Xeneca Power Corporation Inc.

Regards,

Pilar DePedro

FEDERAL



Canadian Environmental
Assessment Agency

Agence canadienne
d'évaluation environnementale

55 St. Clair Avenue East
Suite 907
Toronto, Ontario
M4T 1M2

55, avenue St-Clair Est
Bureau 907
Toronto (Ontario)
M4T 1M2

July 12, 2010

Patrick Gillette
President and CEO
Xeneca Power Development Inc.
5160 Yonge Street, Suite 520
Toronto, Ontario
M2N 6L9

Dear Mr. Gillette,

Re: Waterpower Projects

Thank you for your letter and project overviews received on June 30, 2010 related to the ten waterpower projects, with generating stations proposed at 18 different locations. Project overviews have been received for the following waterpower projects: Allen and Struthers; Big Eddy; Ivanhoe River; Kapuskasing River; Larder and Raven; Marter Township; Serpent River; Vermillion River; Wanatango Falls; and Half Mile Rapids. From your cover letter, 19 different locations with awarded Feed-In-Tariff contracts were mentioned; however, 18 different locations resulted from the preliminary review of all the project overviews. Your clarification regarding this would be much appreciated.

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

Based on our telephone conversation with Mark Holmes (Xeneca Power Development Inc.) on July 6, 2010, it is our understanding that the proposed waterpower project at the Half Mile Rapids site on the Petawawa River is undergoing a federal environmental assessment which is being conducted by National Defence Canada (DND). Because this project is not subject to the *Ontario Environmental Assessment Act*, the Canadian Environmental Assessment Agency does not have a role in this project. We encourage you to continue to work with DND regarding the waterpower project at Half Mile Rapids.



In the case of projects that are subject to the Ontario *Environmental Assessment Act*, if there is uncertainty as to whether the Act may also apply, the Agency can help proponents answer this question. For projects that are subject to the Act, the Agency will act as the federal environmental assessment coordinator (FEAC) and facilitate the involvement of the federal authorities in a co-ordinated assessment aimed at meeting all agencies' needs simultaneously.

In order for the Agency to undertake either of these roles, it must have a project description that can be distributed to various federal authorities to determine their interest in the project. It is recognized that at the early stages of the planning process, there may not be much detailed information to provide. However, proponents should try to provide some information on:

- the nature of the project and its location;
- federal decisions which may be made in relation to the project;
- whether federal funding is being contemplated or federal lands are required.

To better assist proponents, the Agency has developed an Operational Policy Statement, which provides guidance in preparing project descriptions. This is available on the Agency's website at:

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

If your purpose in sending us notification of your project is to determine whether the *Canadian Environmental Assessment Act* applies, please be aware that simple notification will not be sufficient. A project description will be required for the above listed projects except for the waterpower project at Half Mile Rapids on the Petawawa River.

Important Note: Please be aware that release of documents to the public may be part of the EA process. Information provided by you related to the EA for these projects will be part of the Canadian Environmental Assessment Registry and will be made available to members of the public, if requested. A package with additional information will be provided to you upon submission of the project description. Should you provide any documents that contain confidential or sensitive information that you believe should be protected from release to the public, please contact the undersigned to obtain an Exclusion Form. This Form can be used to identify the information to be considered for exclusion from the Canadian Environmental Assessment Registry and the rationale for the exclusion.

If you have any questions regarding any of the above, please contact the undersigned at 416-952-1585 or by email at amy.liu@ceaa-acee.gc.ca.

Sincerely,

Original Signed By:

Amy Liu

Project Manager

Copy: Mark Holmes, Xeneca Power Developments Inc.

Muriel Kim

From: Tami Sugarman
Sent: October 8, 2010 4:07 PM
To: 'amy.liu@ceaa-acee.gc.ca'
Cc: Vanesa Enskaitis; Mark Holmes; Philippa McPhee
Subject: Xeneca Power Development Inc. - CEAA Project Description Documents

Good afternoon Amy

Firstly, Mark Holmes at Xeneca has instructed OEL to contact your office with the purpose of introducing OEL-HydroSys Inc. (OEL) as the EA Consultant providing support to Xeneca through their EA planning process. OEL is assisting Xeneca on 14 Xeneca FIT contracted sites located in northeastern and eastern Ontario, as such;

Blanche River – Marter Twp. Site
Larder River – Larder and Raven Site
Petawawa River – Half Mile Site
Petawawa River – Big Eddy Site
Frederickhouse River – Wanatango Falls Site
Ivanhoe River – The Chutes Site
Ivanhoe River – Third Falls Site
Wanapitei River – Allen and Struthers
Vermillion River – At Soo Crossing, Cascade Falls and MacPherson Falls Sites
Vermillion River – Wabageshik Rapids Site
Serpent River – McCarthy Chute Site
Serpent River – Four Slide Site

Philippa McPhee and I are the OEL project managers for these Xeneca sites. We had introduced ourselves to you as such in previous communications.

Secondly, in response to your request as to the delivery date of the Xeneca final project descriptions, final reviews are being undertaken next week with Xeneca and we will provide the final Project Description to CEAA starting in the week of October 18th with the final ones being submitted before the end of the month.

It is OEL's understanding that your office had circulated the Sept 13/15 DRAFT PDs sent to you by Ed Laratta outside your department (DFO, TC and perhaps others?). In light of the above notice may I recommend that no further circulation of the September Draft versions of the PDs be undertaken. It will minimize confusion if federal department staff are presented only the more comprehensive final project descriptions.

Best regards,
Tami Sugarman

Muriel Kim

From: Philippa McPhee
Sent: October 15, 2010 11:57 AM
To: Liu, Amy [CEAA]
Cc: Tami Sugarman; Don Chubbuck; Ed Laratta; Mark Holmes; Pilar DePedro; Marg Chute
Subject: RE: Federal Distribution List - Xeneca Projects

Hi Amy;

I received your voicemail yesterday and was waiting for feedback from Xeneca as to the status of their review of the current draft Project Descriptions. I have just talked to Don and his co-workers and confirmed that we expect the reports to be issued in the following order:

Petawawa – Half Mile
Petawawa – Big Eddy
Blanche – Marter Twp.
Larder – Larder & Raven
Vermillion – At Soo Crossing, Cascade Falls, McPherson Falls

Vermillion – Wabageshik
Wanapatai – Allan & Struthers
Ivanhoe – The Chute
Ivanhoe – Third Falls
Fredrickhouse – Wanatango

Serpent – Four Slide Falls
Serpent - McCarthy Chute

This order may vary somewhat but it is close. We expect that the first group of five will be issued next week and the second group of five will be issued the week of October 25th. We are still waiting for updated drawings for the latter two so their delivery date will be updated as soon as we have received these items.

With regards to the Provincial Ministries distribution list, these will be provided in the individual Project Descriptions. As a starting point, we would expect them to include but not be limited to:

Ministry of Aboriginal Affairs
Ministry of Tourism and Culture
Ministry of Energy and Infrastructure
Ministry of the Environment (MOE)
Ministry of Municipal Affairs and Housing
Ministry of Natural Resources (MNR)
Ministry of Transportation
Ministry of Northern Development, Mines and Forestry

Please do not hesitate to contact me should you have any additional questions,

Philippa

From: Liu, Amy [CEAA] [<mailto:Amy.Liu@ceaa-acee.gc.ca>]
Sent: Friday, October 15, 2010 10:03 AM
To: Don Chubbuck; Ed Laratta
Cc: Islam, Manirul [CEAA]; Tami Sugarman; Philippa McPhee
Subject: Federal Distribution List - Xeneca Projects

Hi Don.

Please find attached the federal distribution list for the Xeneca Power Development Hydro Projects. The number of hard copies and CD copies are indicated on the excel spreadsheet. Can you provide the order and estimated dates of when the proposed projects will be sent out?

<<Xeneca Projects Distribution List October 2010.xls>>

Can you also provide a distribution list of the provincial ministries that will receive a copy of the project description?

Feel free to contact me if you have any questions.

Thank you.

Amy Liu

Project Manager | Gestionnaire de projets

Ontario Region | Agence canadienne d'évaluation environnementale, Région de l'Ontario

55 St. Clair Avenue East, Suite 907 Toronto ON M4T 1M2 | 55 avenue St. Clair Est pièce 907 Toronto ON M4T 1M2

amy.liu@ceaa-acee.gc.ca

<http://www.ceaa-acee.gc.ca>

Telephone | Téléphone 416-952-1585

Facsimile | Télécopieur 416-952-1573

Government of Canada | Gouvernement du Canada

blank CONTACT list

Xeneca Projects Distribution List October 2010

Manapet River, Lander River/Raven Falls, Blanche River, Vermilion River, Frederick House River	1	1	Fisheries and Oceans Canada	Rich Rudolph	1500 Pats Street, Unit 11, Sudbury, ON P3E 3B8	705-522-5907	705-522-6421	Rich.rudolph@dnr-mno.gc.ca		
Manitow River, Kapuske River, Serpent River	1	1	Fisheries and Oceans Canada	Kelly Withers	Great Lakes Forestry Centre, 1219 Queen Street East, Sault Ste. Marie, ON P6A 2E5	705-941-2008	705-941-2013	kelly.withers@dnr-mno.gc.ca		
Half Mile Rapids	1	1	Environment Canada	Michael Shaw Environmental Assessment Officer	Environmental Assessment Section 887 Lakeshore Road Burlington, ON L7R 4A6	905-336-4957	905-336-8901	Michael.Shaw@ec.gc.ca		
Half Mile Rapids	1	1	Transport Canada	Lisa McDonald Environmental Officer	4900 Yonge Street, 4th Floor North York, ON M2N 6A5	416-952-0469		lisa.mcdonald@tc.gc.ca		
Half Mile Rapids	1	1	Indian and Northern Affairs Canada	Bryan Gray Sr Analyst, Waters Policy Lands and Water Directorate; Christopher Morton Water Resources Analyst	10 Wellington Street Gatineau, Quebec K1A 0H4	819-997-0032 (Bryan Gray) 819-994-3956 (Christopher Morton)	819-997-9823	Bryan.Gray@ainc-inac.gc.ca Christopher.Morton@ainc-inac.gc.ca		
Half Mile Rapids	1	1	Natural Resources Canada	Robin Sano Environmental Assessment Officer	580 Booth Street, 3rd Floor, Room: A7-5 Ottawa, Ontario K1A 0E4	613-943-6507	613-955-5719	Robin.Sano@NRCan-RNC.gc.ca		

Muriel Kim

From: Ed Laratta [elaratta@xeneca.com]
Sent: April 13, 2011 7:24 PM
To: Liu, Amy [CEAA]
Cc: Mark Holmes; Shaw, Michael [Burlington]; Davis, Stephanie [CEAA]; Bell, Dave [CEAA]; Lusk, Sheryl [Ontario]; Tami Sugarman ; Karen Fortin; Ed Laratta
Subject: RE: Xeneca Hydro Projects
Importance: High

Hi Amy,

I understand that CDs are on their way to you for the water reports, as per your request. We will do something for future reports to address your need for efficient editing and commenting on documents; let's discuss next week.

Regards,

Ed.

Edmond Laratta
Manager, Environmental Affairs
Xeneca Power Development Inc.
5160 Yonge Street
Suite 520
North York, ON M2N 6L9

Tel: 416-590-9362 ext. 106
Fax: 416-590-9955
elaratta@xeneca.com

From: Liu, Amy [CEAA] [<mailto:Amy.Liu@ceaa-acee.gc.ca>]
Sent: April 7, 2011 10:35 AM
To: Ed Laratta
Cc: Mark Holmes; Shaw, Michael [Burlington]; Davis, Stephanie [CEAA]; Bell, Dave [CEAA]; Lusk, Sheryl [Ontario]; Tami Sugarman ; Karen Fortin
Subject: Xeneca Hydro Projects

Hi Ed.

The federal authorities requested for all future correspondence related to all Xeneca Projects be sent in an unprotected format whether it be MS Word, PowerPoint, Excel and/or Adobe Acrobat (.PDF) . This will allow for much more efficient review of documents using track changes and/or cut and paste features.

Environment Canada has requested that a copy of all the water quality baseline reports be compiled in a CD or DVD. Can you please have the CDs/DVDs sent to Michael Shaw and Sheryl Lusk at the addresses below?

Michael Shaw
Environment Canada
Environmental Assessment Section
867 Lakeshore Road
Burlington, Ontario L7R 4A6
Canada

Sheryl Lusk
Environmental Assessment Officer
Environment Canada
Environmental Assessment Section
4905 Dufferin Street
Toronto, Ontario M3H 5T4
Canada

EC also prefers that all future reports be sent to the appropriate EC contacts in a CD or DVD.
Thank you.

Amy Liu
Project Manager | Gestionnaire de projets
Ontario Region | Agence canadienne d'évaluation environnementale, Région de l'Ontario
55 St. Clair Avenue East, Suite 907 Toronto ON M4T 1M2 | 55 avenue St. Clair Est pièce 907 Toronto ON M4T 1M2
amy.liu@ceaa-acee.gc.ca
<http://www.ceaa-acee.gc.ca>
Telephone | Téléphone 416-952-1585
Facsimile | Télécopieur 416-952-1573
Government of Canada | Gouvernement du Canada

No virus found in this incoming message.

Checked by AVG - www.avg.com

Version: 9.0.894 / Virus Database: 271.1.1/3554 - Release Date: 04/07/11 06:01:00

Muriel Klm

From: Bell,Dave [CEAA] [Dave.Bell@ceaa-acee.gc.ca]
Sent: April 18, 2011 11:15 AM
To: Pilar DePedro
Cc: Tami Sugarman; Alan Rowlinson; Davis,Stephanie [CEAA]
Subject: RE: Ivanhoe River EA Coordination Meeting (Xeneca)

Pilar

Yes I am unable to make the meeting let DFO and the Agency know what transpires I will be in the office the week or April 26 and can talk then.

Dave

From: Environmental Assessment Information [<mailto:eainfo@oel-hydrosys.ca>]
Sent: April 18, 2011 10:31 AM
To: Alan Rowlinson; Bell,Dave [CEAA]; Davis,Stephanie [CEAA]
Cc: Tami Sugarman
Subject: Ivanhoe River EA Coordination Meeting (Xeneca)
Importance: High

Good morning,

The EA Coordination Meeting for the Xeneca proposed projects on the Ivanhoe River will be held tomorrow in Timmins. As DFO and CEAA are unable to attend would you want us to participate in the first part of your federal department call regarding these projects?

Regards,

Pilar



Environmental Assessment Information

OEL-HydroSys Inc. — 3108 Carp Rd. - P.O. Box 430, Carp, Ontario, Canada K0A 1L0
(T) (613) 839-1453 (F) (613) 839-5376
eainfo@oel-hydrosys.ca — www.oel-hydrosys.ca

OEL-HydroSys, WESA Envir-Eau, WESA, WESA Technologies, members of WESA Group Inc.

NOTE: If you are not the intended recipient of this e-mail, please delete it immediately. Unauthorized transmission of this e-mail is prohibited.

Please consider the environment before printing this e-mail

Muriel Kim

From: Shaw, Michael [Burlington] [Michael.Shaw@ec.gc.ca]
Sent: April 15, 2011 4:58 PM
To: Bell, Dave [CEAA]
Cc: Dobos, Rob [Burlington]; Moreno-Colacci, Jessica [Ontario]; haya.finan@tc.gc.ca; Alan.Rowlinson@dfo-mpo.gc.ca; Mei Ling Chen; Scott, Caitlin; Environmental Assessment Information
Subject: Surface Water Quality Monitoring Program, 2010: Ivanhoe River Hydroelectric Generation Stations - The Chute (EC#2010-058) & Third Falls (EC#2010-079)

As requested, Environment Canada (EC) has reviewed the water quality monitoring report referenced in the request below from OEL-HydroSys Inc. on behalf of the project Proponent (Xeneca Power Development Inc.).

The following comments are provided to the Responsible Authorities for the subject project(s) under the *Canadian Environmental Assessment Act* (CEAA) on behalf of EC in context of our role as an expert Federal Authority per section 12(3) of CEAA as part of the overall screening of the project(s).

As the report/monitoring program is similar for each of the proposed hydroelectric generating stations on the Ivanhoe River (i.e., The Chute, and Third Falls), we have provided one set of comments that would apply to both reports, except as noted.

Specific comments are provided below for your consideration.

Section 4.1.2 - Field Studies Proposed by the Proponent: Fish Species Inventory

It is indicated that a *"generalized sampling of the fish community was conducted to determine the full range of species utilizing the river both above and below the proposed dam site."*

- The Proponent should indicate on a map the sampling areas and sampling stations that were sampled as part of the Fish Species Inventory survey and as part of the Walleye Spawning Survey. The Proponent should also indicate on a map the location of the water quality sampling stations.
- In specific to The Chute project, it is indicated on p. 23 that both walleye and pike are the primary species sought after by recreational anglers. As a result, the Proponent should provide justification for conducting a spawning survey targeted only to the walleye species.
- The Proponent should conduct a baseline study to determine the concentration of mercury in the tissue of sport fish in the study area. Samples should be collected from a reference location (i.e. upstream of the future headpond area) and at an exposure area (i.e. at the site of the future headpond area).

As indicated in EC's Metal Mining Effluent Regulations (MMER's) technical guidance document, tissue samples collected for mercury analysis should be of one sex and one age class, if possible. If this is not possible, then the sex of each fish making up the laboratory sample for mercury analysis should be recorded and reported. This is especially relevant for the walleye species. In a study by Gewurtz, Bhavsar and Fletcher (2010), it is indicated that statistical analyses of samples collected by Ontario Ministry of the Environment's (MOE's) Sport Fish Contaminants Program, have found that for the walleye spp., there is a significant difference in fish tissue mercury concentrations amongst the genders (mercury tissue concentrations in males being greater than concentrations in females). EC recommends that the Proponent should also collect the following endpoints for the fish collected for the fish tissue mercury study:

- a. Total length
- b. Total body weight
- c. Age
- d. Sex
- e. Weight of its liver and hepatopancreas

If fish are sexually mature, the following endpoints should be measured as well:

- a. Egg size
- b. Fecundity
- c. Gonad Weight

These endpoints should be analyzed statistically to determine if there are significant statistical differences between exposure and reference fish specimens.

A YOY tissue mercury survey should be conducted as well. The collected YOY should be measured for:

- a. Total length
- b. Total body weight

EC recommends that head and YOY mercury tissue surveys should be conducted prior to the construction and operation of the headpond and post-headpond construction, on an annual basis for at least the first three years post-construction in order to closely monitor any changes in mercury tissue concentration that could result from the construction of the headpond. The surveys could be conducted on a bi-annual basis after the first three years of operation of the hydropower plant. Water quality samples should be collected and analyzed from each of the fish sampling areas as well.

Section 4.1.3 - Reporting

- It is indicated in this section that a comprehensive report will be provided. This report should include the results of the Fish Species Inventory study, the Walleye Spawning surveys, the Lake Sturgeon Spawning surveys and the water quality sampling and physical attributes sampling. EC should be provided with a copy of this report.

Table 5.1 - Potential Effects Identification Matrix for Construction and Operation:

- The Proponent provided a list of potential effects on the aquatic ecosystem under the criteria of "General Natural Environment Considerations." It is indicated that one of the potential adverse effects on water quality or quantity (surface water) is a *"potential effect during operation due to shoreline erosion, inundation of terrestrial land in head ponds (e.g. nutrients, mercury inputs) and accidental spills."* EC recommends that the Proponent should consider the potential increase in mercury levels in surface water and the potential subsequent increase in fish tissue mercury levels that could result from the creation of the headponds.

Table 5.1 - Potential Effects Identification Matrix for Construction and Operation:

- The Proponent listed a series of potential effects on the aquatic and riparian ecosystem under the criteria "Aquatic and Riparian Ecosystem Considerations." It is indicated that one of the potential adverse effects on surface water is a potential *"change in water temperature in headpond due to increased surface area and slower flow velocity anticipated to be negligible."* It is indicated that no mitigation measures will be required since the overall thermal regime of the river will likely be unaffected. It had been previously indicated in Section 2.4.1 *"Energy and Water Requirements and Sources"* that *"small amounts of cooling water may be withdrawn from the Ivanhoe River to cool powerhouse components."* The Proponent should provide an estimate of the expected temperature and volume of the thermal discharge from the powerhouse. The Proponent should clarify if this discharge would be released to the Ivanhoe River.
- It is also indicated that small areas of wetlands may exist in the proposed development site. The Proponent indicated that it had assessed the study area to determine if there were wetlands present. EC requests that the Proponent provide the results of this assessment and indicate if it is likely that these wetlands will be inundated when the headpond is created.

Project-Specific Comments:

Ivanhoe River - The Chute:

Surface Water Quality Monitoring Program - Ivanhoe (The Chute) letter dated February 24th, 2011 addressed to Mr. Edmond Laratta:

- The Proponent should provide a map depicting the location of the spring and summer 2010 sampling stations (i.e. SW1 and SW3) where water quality samples have been collected. The location of the future Ivanhoe River Hydroelectric Generation Station - The Chute and its associated headpond should be clearly depicted on this map. EC requests that the Proponent clarify if water quality sampling has been conducted at a suitable reference sampling area as well. If this has not been the case, EC recommends that the Proponent ensure that water quality sampling is conducted at a reference area is conducted prior to the creation of the headpond.
- *Table 1: Ivanhoe (The Chute) Surface Water Locations and General Observations*": It is indicated on this table that water level at both SW1 and SW3 was "low" and that the water current at SW1 was "slow" and at SW3 was "moderate." The Proponent should ensure that actual measurements of water levels (i.e. depth) and water currents are conducted at all water quality sampling stations.
- *Table 2: Ivanhoe (The Chute) Surface Water Chemistry*": It is indicated on this table that zinc levels on the July 21, 2010 sample were elevated above the Provincial Water Quality Objectives (PWQO) guideline at SW3. It is also indicated in the letter to Mr. Edmond Laratta that the source of elevated zinc concentrations is unknown. EC requests that the Proponent also indicate if they will conduct further studies in the area to confirm whether there is an on-going source or contamination or whether these are naturally occurring concentrations.

- The Proponent did not provide a measure of water hardness for the water samples collected and analyzed for SW1 and SW3. EC requests that the Proponent provide us with an estimate of hardness for the water quality samples analyzed as part of this assessment and they should ensure that water hardness is measured and reported for all future samples collected.

Ivanhoe River - Third Falls:

Surface Water Quality Monitoring Program - Ivanhoe (Third Falls) letter dated February 24th, 2011 addressed to Mr. Edmond Laratta:

- The Proponent should provide a map depicting the location of the spring and summer 2010 sampling stations (i.e. SW1 and SW3) where water quality samples have been collected. The location of the future Ivanhoe River Hydroelectric Generation Station - Third Falls and its associated headpond should be clearly depicted on this map. The Proponent should clarify if water quality sampling has been conducted at a suitable reference sampling area as well. If this has not been the case, EC recommends that the Proponent ensure that water quality sampling is conducted at a reference area is conducted prior to the creation of the headpond.
- *Table 1: Ivanhoe (Third Falls) Surface Water Locations and General Observations*": It is indicated on this table that water levels at both SW1 and SW3 were "low" and that water currents at both SW1 and SW3 were "slow." The Proponent should ensure that actual measurements of water levels (i.e. depth) and water currents are conducted at all water quality sampling stations.
- *Table 2: Ivanhoe (Third Falls) Surface Water Chemistry*": It is indicated on this table that lead levels on the July 23, 2010 sample were elevated above the PWQO guideline at SW1. The Proponent did not provide a measure of water hardness at SW1 and SW3 which is required in order to calculate the Canadian Water Quality Guideline (CWQG) for lead for a given water body. Within the range of CWQG for lead that are possible, the minimum allowed concentration of Pb is 1 ug/L. EC requests that Proponent provide us with an estimate of hardness for the water quality samples analyzed as part of this assessment and it should ensure that water hardness is measured and reported for all future samples collected. It is also indicated in the letter to Mr. Edmond Laratta that the source of elevated metal concentrations is unknown (elevated levels of copper and lead at SW1 and elevated of zinc at SW3 samples). EC requests that Proponent indicate if they will conduct further studies in the area to confirm whether there is an on-going source or contamination or whether these are naturally occurring concentrations.

Environment Canada's comments and recommendations are intended to provide expert support to project proponents and decision-makers, in accordance with its program related responsibilities and associated guidelines and policies. These comments are in no way to be interpreted as any type of acknowledgement, compliance, permission, approval, authorization, or release of liability related to any requirements to comply with federal or provincial statutes and regulations. Responsibility for achieving regulatory compliance and cost effective risk and liability reduction lies solely with the project proponent.

We understand that this email will become part of the RA's public registry as required under CEAA. In this context we acknowledge that our emails may be added to the registry in accordance with *Access to Information Act* and *Privacy Act* requirements

We trust that the above comments will assist you in advancing the EA screening for this project.

Please contact me if you wish to discuss our comments and recommendations, or any other matters related to our advice on this project.

Yours Sincerely,

Mike

Michael Shaw
 Environmental Assessment Officer
 Environmental Assessment Section
 Environmental Protection Operations Division - Ontario
 Environmental Stewardship Branch
 Environment Canada
 867 Lakeshore Rd., P.O. Box 5050
 Burlington (Ontario) L7R 4A6

E-mail: michael.shaw@ec.gc.ca
Telephone 905-336-4957
Facsimile 905-336-8901
Government of Canada
Website: www.ec.gc.ca

Michael Shaw

Agente d'évaluation environnementale
Section de programme d'évaluation environnementale
Division des opérations de protection de l'environnement de l'Ontario
Direction générale de l'intendance environnementale
Environnement Canada
867, chemin Lakeshore, C.P. 5050
867 Lakeshore Rd., P.O. Box 5050
Burlington (Ontario) L7R 4A6
E-mail: michael.shaw@ec.gc.ca
Téléphone 905-336-4957
Gouvernement du Canada
Site Web: www.ec.gc.ca

From: Environmental Assessment Information [<mailto:eainfo@oel-hydrosys.ca>]

Sent: Tuesday, March 22, 2011 9:55 AM

To: Alan Rowlinson; Bill Guthrie; Brett Smith; Bell, Dave [CEAA]; Ed Snucins; Ellen Cramm; Haya Finan; Helen Kwan; Lianne Kentish; Mohammad Sajjad Khan; Paul Bernier; Dobos, Rob [Burlington]

Cc: Tami Sugarman; dgreen@nrsl.on.ca; Ed Laratta

Subject: Surface Water Quality Monitoring Program, 2010 and call for Technical Reviewers

Good morning,

In support of the proposed Ivanhoe River Waterpower Projects being developed by Xeneca Power Development Inc. we are pleased to provide you with the baseline surface water quality investigation reports. This report documents the results of the surface water monitoring program undertaken through the 2010 field season at the project sites.

The proponent is also planning to release additional supporting documentation according to the following schedule:

Hydrology Review – week of March 21st

Operating Plan – week of March 21st

Existing Conditions report – available

Archaeological Stage 1 Summary Report – week of March 28th or earlier

Could you please advise which reports you would be interested in receiving along with the number of copies and in what format (FTP, CD-ROM, hard copy) and any other persons that should be receiving these reports at this time.

An EA Coordination meeting, will be scheduled soon for these projects. At other EA coordination meetings hosted by Xeneca it was determined that a technical review committee comprised of qualified persons from regulatory review bodies should be formed. If you or an associate is interested in participating as a technical reviewer for one or both of these projects, please provide the contact(s) name and contact information. We will soon begin to schedule the technical committee meetings. Two focused technical meetings are planned for early spring; the first is tentatively being scheduled for mid-April to discuss the Hydrology Review and Operating Plan. A meeting to discuss surface water quality and habitat assessment requirements is also

required. This second meeting may be held concurrent to the first meeting or, if necessary as a separate discussion. Please indicate which meeting you or someone from your organization would be interested in participating in.

Regards,

Pilar



Environmental Assessment Information

OEL-HydroSys Inc. — 3108 Carp Rd. - P.O. Box 430, Carp, Ontario, Canada K0A 1L0

(T) (613) 839-1453 (F) (613) 839-5376

eainfo@oel-hydrosys.ca — www.oel-hydrosys.ca

OEL-HydroSys, WESA Envir-Eau, WESA, WESA Technologies, members of WESA Group Inc.

NOTE: If you are not the intended recipient of this e-mail, please delete it immediately. Unauthorized transmission of this e-mail is prohibited.



Please consider the environment before printing this e-mail

Muriel Kim

From: Rob Steele [rsteele@nrsl.on.ca]
Sent: February 9, 2011 2:44 PM
To: Jennifer.Thomas@dfo-mpo.gc.ca; DeBruyn, Ed; Hoggarth, Thomas; Dahl, Julie; Beal, Jim (MNR); Patrick Gillette; Robert J. Steele; Carl.Jorgensen@dfo-mpo.gc.ca; Tami Sugarman Laroche, Chantal R; Thompson, Dan; Ed Laratta; Derrick.Moggy@dfo-mpo.gc.ca; Ralph, Karen; Bill Touzel; Dosser, Sandra (MNR)
Subject: February 11th Meeting with Xeneca Power
Attachments: Agency Discussions - Xeneca Power_DFO Agenda - Feb 11, 2011.doc.docx

Thank you for agreeing to participate in this Friday's Meeting with Xeneca Power to discuss fish habitat compensation options for their hydroelectric projects currently undergoing EAs in Ontario.

If you are receiving this email, it is my understanding that you will be attending the meeting. To date only two people have confirmed that they will be calling in so I am expecting that everyone else will be attending in person.

For those who have indicated that they will not be in attendance or will be sending someone in their place, I have copied your on this email, just to keep you in the loop.

Please find attached an agenda which should serve to focus our discussions. After introductions, my intentions are to cover items 2 through 6 in the agenda in the form of a power point presentation. Following that presentation I propose to open the floor for general discussion after which we can confirm what the next steps in this process may be.

If you would like anything specific added to the agenda please let me know before Friday.

The attached agenda includes an address for the Holiday Inn where we will be meeting as well as coordinates for calling in to the meeting.

Looking forward to an informative discussion.

Regards, Rob



Robert J. Steele, B.Sc.
Senior Aquatic Biologist
Natural Resource Solutions Inc.
225 Labrador Drive, Unit 1
Waterloo, ON, N2K 4M8
(p) 519.725.2227
(f) 519.725.2575
(c) 519.577.1503
(e) rsteele@nrsl.on.ca
www.nrsl.on.ca

Agenda

**Re: Agency Discussions re: Xeneca Power Hydro Development Projects
– Fisheries Act Authorizations**

Date/Time: February 11, 2011 @ 10:00am

**Location: Holiday Inn Toronto Airport East
600 Dixon Road
Toronto, ON M9W 1J1**

**Dial In #: 1-866-213-1666
Call ID#: 5871897**

**Invitees: Jim Beal – MNR
Carl Jorgensen - DFO
Julie Dahl – DFO
Ed DeBruyn – DFO
Patrick Gillette – Xeneca
Thomas Hoggarth – DFO
Robert Steele – NRSI
Tami Sugarman – OEL HydroSys
Jennifer Thomas – DFO**

Items:

- 1. Introductions**
- 2. Discussion of Xeneca Projects and Range of Anticipated Fish Habitat Impacts**
- 3. Project Critical Path – FIT Contracts**
- 4. Goals and Objectives of Today's Discussions**
- 5. Potential Concepts for Consideration**
- 6. Consideration of Impediments to Regional Scale Approach to Compensation**
- 7. Open discussion**
- 8. Next Steps**
 - 1. Potential undertakings/reviews moving forward (permitting)**
 - 2. Future Discussions – Dates**

PROVINCIAL



5160 Yonge St., Suite 520, Toronto, ON M2N 6L9
tel 416-590-9362 fax 416-590-9955 www.xeneca.com

September 24, 2009

To whom it may concern:

Patrick Gillette has authorized Xeneca Power Development Inc. ("Xeneca") to act on the Applicant's behalf on matters concerning Waterpower Site Applications in the Province of Ontario. Applicants are:

- | | |
|------------------------|----------------------|
| ➤ 2066102 Ontario Inc. | 2089281 Ontario Inc. |
| ➤ 2089282 Ontario Inc. | 2089284 Ontario Inc. |
| ➤ 2098292 Ontario Inc. | 2118964 Ontario Inc. |
| ➤ 2118966 Ontario Inc. | 2118968 Ontario Inc. |
| ➤ 2118969 Ontario Inc. | 2118970 Ontario Inc. |
| ➤ 2124716 Ontario Inc. | 2124726 Ontario Inc. |
| ➤ 2124750 Ontario Inc. | 2127580 Ontario Inc. |
| ➤ 2127613 Ontario Inc. | 2127621 Ontario Inc. |
| ➤ 6774008 Canada Inc. | 6774016 Canada Inc. |
| ➤ 6774024 Canada Inc. | 6774032 Canada Inc. |

Sites currently under consideration by the Crown are:

- 22.4 km from Mouth
- 3.2 km from Mouth (Roaring Rapids) (WSR-2007-43)
- Above Ball Lake (WSR-2007-06)
- Ahmic Lake Dam & Kneofli Rapids
- At Mouth, Jocko River
- Canyon Lake
- Derby Island Rapids (WSR-2007-42)
- Ivanhoe Lake Dam (DSR-08-05)
- Ivanhoe River 1st Falls
- Ivanhoe River 3rd Falls
- Ivanhoe River The Chute (WSR-2007-60)
- Lac Des Mille Lac Dam
- Larder Lake & Raven Falls (DSR-09-6)
- Mackenzie Lake A
- Mackenzie Lake B
- McGraw Falls
- Purgatory Chute

- Quibell: Lot 2 Con IV & Lot 6 Con V (WSR-2007-12)
- Roaring II
- Shabaqua Corners (WSR-2007-54)
- Sowden Lake at Talking Falls
- Trent Severn Waterway Dam 1
- Windy Lake Dam
- Wanatango Falls (WSR-2007-03)
- Whitefish Falls (Frood Lake)
- Wabigoon Falls (WSR-2007-05)

For clarity, Xeneca is authorized to take whatever actions it deems reasonable unless this letter is withdrawn by the Applicant in writing.

Yours very truly,



Patrick Gillette
President

2066102 Ontario Inc.
2089281 Ontario Inc.
2089282 Ontario Inc.
2089284 Ontario Inc.
2098292 Ontario Inc.
2118964 Ontario Inc.
2118966 Ontario Inc.
2118968 Ontario Inc.
2118969 Ontario Inc.
2118970 Ontario Inc.
2124716 Ontario Inc.
2124726 Ontario Inc.
2124750 Ontario Inc.
2127580 Ontario Inc.
2127613 Ontario Inc.
2127621 Ontario Inc.
6774008 Canada Inc.
6774016 Canada Inc.
6774024 Canada Inc.
6774032 Canada Inc.



Patrick W. Gillette
President & COO
Xeneca Power Development Inc.

**Ministry of Natural
Resources**

Office of the Minister

Room 6630, Whitney Block
99 Wellesley Street West
Toronto ON M7A 1W3
Tel: 416-314-2301
Fax: 416-314-2216

**Ministère des Richesses
naturelles**

Bureau du ministre

Édifice Whitney, bureau 6630
99, rue Wellesley Ouest
Toronto (Ontario) M7A 1W3
Tél.: 416-314-2301
Télééc.: 416-314-2216



RECEIVED
OCT 05 2009

September 24, 2009

**Mr. Patrick Gillette
2124750 Ontario Inc.
5160 Yonge Street
North York ON M2N 6L9**

RE: Waterpower on Crown Land Acknowledgement Letter

Dear Mr. Gillette:

The purpose of this letter is to provide further information related to your Crown land application(s).

Please refer to the attached application listing, map(s) and information template(s) which provide very important information related to your application area(s). The template(s) also provide some direction to assist you in conducting research related to your application area(s).

Upon approval, the Ontario Power Authority (OPA) will make the final Feed-in Tariff (FIT) rules available on their website at: www.powerauthority.on.ca.

In order to maintain priority position within MNR's site release process, you must submit an application to the FIT program within the FIT program launch period. Following the outcome of the Ontario Power Authority's FIT launch application process, the status of all Crown land applications will be reviewed and applicants will be contacted regarding the status of each of their applications.

This letter and the attached mapping information do not in any way constitute any commitment, obligation or approval of your project by the Government of Ontario. Should you decide to proceed with your application(s) it will be necessary for you to follow all processes outlined in any applicable policies, procedures or guidance material and to ensure that you adhere to all applicable federal and provincial legislation, as well as relevant municipal bylaws.

This letter does not authorize any activity, work or undertaking and does not grant any right to flood or enter onto Crown land or the land of any other person without first obtaining the Crown's or that person's consent, nor does it authorize any infringement of the rights of the Crown or of any other person.

It should be noted that areas may be subject to various land-ownerships, permits, licenses or leases (such as permits/tenure issued under the Aggregate Resources, Public Lands or Crown Forest Sustainability Acts). As outlined in MNR's policies and procedures, it is important that applicants discuss their area of interest with the local MNR District Office in order to have a full understanding of all activities that a particular area may be subject to. While information will be provided to you throughout the review and environmental approvals processes, you are encouraged to conduct as much research as possible related to your specific application area.

All proposed Crown land dispositions are subject to the duty to consult with Aboriginal communities in the area.

The resolution of any legal/landowner issues or claims that may be made relative to these lands or any other lands required to develop any potential project and/or associated infrastructure is the sole responsibility of the applicant.

If you have any questions or concerns regarding your application(s), please contact Jennifer Keyes, Manager, Renewable Energy at 705-755-5041.

Thank you for your interest in waterpower in Ontario.

Sincerely,

A handwritten signature in cursive script, appearing to read "Donna Cansfield".

Donna Cansfield
Ministry of Natural Resources



Application Status/ Fact Sheet - Waterpower on Crown land

PLEASE READ ALL OF THE FOLLOWING IN DETAIL AS IT CONTAINS KEY INFORMATION RELATED TO YOUR APPLICATION

**Applicant's Name: 2124750 Ontario Inc.
Application #: WSR-2007-060
Site #: 4LC18
File Status: Application Received
MNR District/ Region: Chapleau/ Northeast**

This documentation (Application Status/ Fact Sheet and required mapping/ grid cell listing) will serve as acknowledgement of this application. In addition, it will meet the submission requirements for Crown Land Access Rights as required by the Ontario Power Authority.

MNR's Renewable Energy Extranet site is a useful resource and is available at:
http://www.mnr.gov.on.ca/en/Business/Renewable/2ColumnSubPage/STEL02_167279.html

Algonquin Land Claim:

The governments of Ontario and Canada are currently in negotiations with the Algonquins of Ontario relating to the potential resolution of the Algonquins' comprehensive land claim. If your application is located in eastern Ontario it may fall within the Algonquin consultation area. A map of the consultation area can be found at the Ontario Ministry of Aboriginal Affairs website at
<http://www.aboriginalaffairs.gov.on.ca/english/negotiate/algonquin/map.asp>.

Ontario, Canada and the Algonquins have recently signed a Consultation Process Interim Measures Agreement which requires that Ontario and Canada consult with the Algonquins on potential dispositions and encumbrances on Crown land within the consultation area that may adversely affect any Aboriginal rights that the Algonquins may have. The government may therefore be required to consult with the Algonquins in respect of your application if it falls within the area set out in the map referenced above. In addition, you should be aware that preliminary discussions related to the land selection component of the Algonquins' claim are now underway and a portion of the Crown lands within the area will be impacted. Early engagement with the Algonquins of Ontario by applicants whose applications fall within the consultation area is highly recommended. Further information related to this consultation process will be provided by MNR staff.

Far North:

In June 2009, Bill 191, an Act with respect to land use planning and protection in the Far North was introduced into the legislature. The Bill is currently at first reading. Proponents with potential projects within the Far North area are encouraged to review this proposed legislation consider the potential implications relative to their project(s). As with all proposed legislation, there may be changes to the proposal during first and second readings. Upon receiving Royal assent, the provisions of this Bill will be Law within Ontario and will be considered in reviewing your application.

Under Bill 191, the Far North of Ontario is described as:

- (a) the portion of Ontario that lies north of the line consisting of,
 - (i) Woodland Caribou Provincial Park,
 - (ii) the following management units designated under section 7 of the Crown Forest Sustainability Act, 1994 (CFSA) as of May 1, 2009: Red Lake Forest, Trout Lake Forest, Lac Seul Forest and Caribou Forest,
 - (iii) Wabakimi Provincial Park, and
 - (iv) the following management units designated under section 7 of the Crown Forest Sustainability Act, 1994 as of May 1, 2009: Ogoki Forest, Kenogami Forest, Hearst Forest, Gordon Cosens Forest and Cochrane-Moose River Forest.

The proposed regulation plan for this boundary description is available at:
http://www.web2.mnr.gov.on.ca/FarNorth/BoundaryMaps/Boundary_Line_English.htm

Further information related to the Far North is available at:
<http://www.mnr.gov.on.ca/en/Business/FarNorth/2ColumnSubPage/266506.html>

Forestry:

The majority of Ontario north, of Highway #7, and south of the Far North Planning area as described above, is within the "area of the undertaking" for Forest Management planning and active Forest Management operations are ongoing. MNR District Offices can provide specific information regarding current and approved forest management operations and will be able to facilitate contact with holders of Forest Resource Licenses to discuss potential challenges and opportunities associated with the applicable waterpower project.

Further information related to Forest Management Planning is available at:
http://www.mnr.gov.on.ca/en/Business/Forests/2ColumnSubPage/STEL02_163511.html

Land Use:

All applicants are strongly encouraged to conduct investigation of their application area using MNR's Crown Land Use Policy Atlas (CLUPA) to determine if there are Land Use Planning constraints that may affect their ability to develop waterpower on this site. A link to CLUPA is available through the renewable energy extranet site at: <https://www.extranet.mnr.gov.on.ca/renewable/>.

The information provided on the enclosed map is illustrative in nature and based on the best available data at the time of production. Additional information may be identified as the proponent proceeds through MNR's site release process.

It should be noted that areas may be subject to various land-ownerships, permits licenses or leases (such as permits/tenure issued under the Aggregate Resources, Public Lands or Crown Forest Sustainability Acts) which are not shown on the enclosed map. As outlined in MNR's policies and procedures, it is important that applicants discuss their area of interest with local MNR district office staff in order to have a full understanding of all activities that a particular area may be subject to.

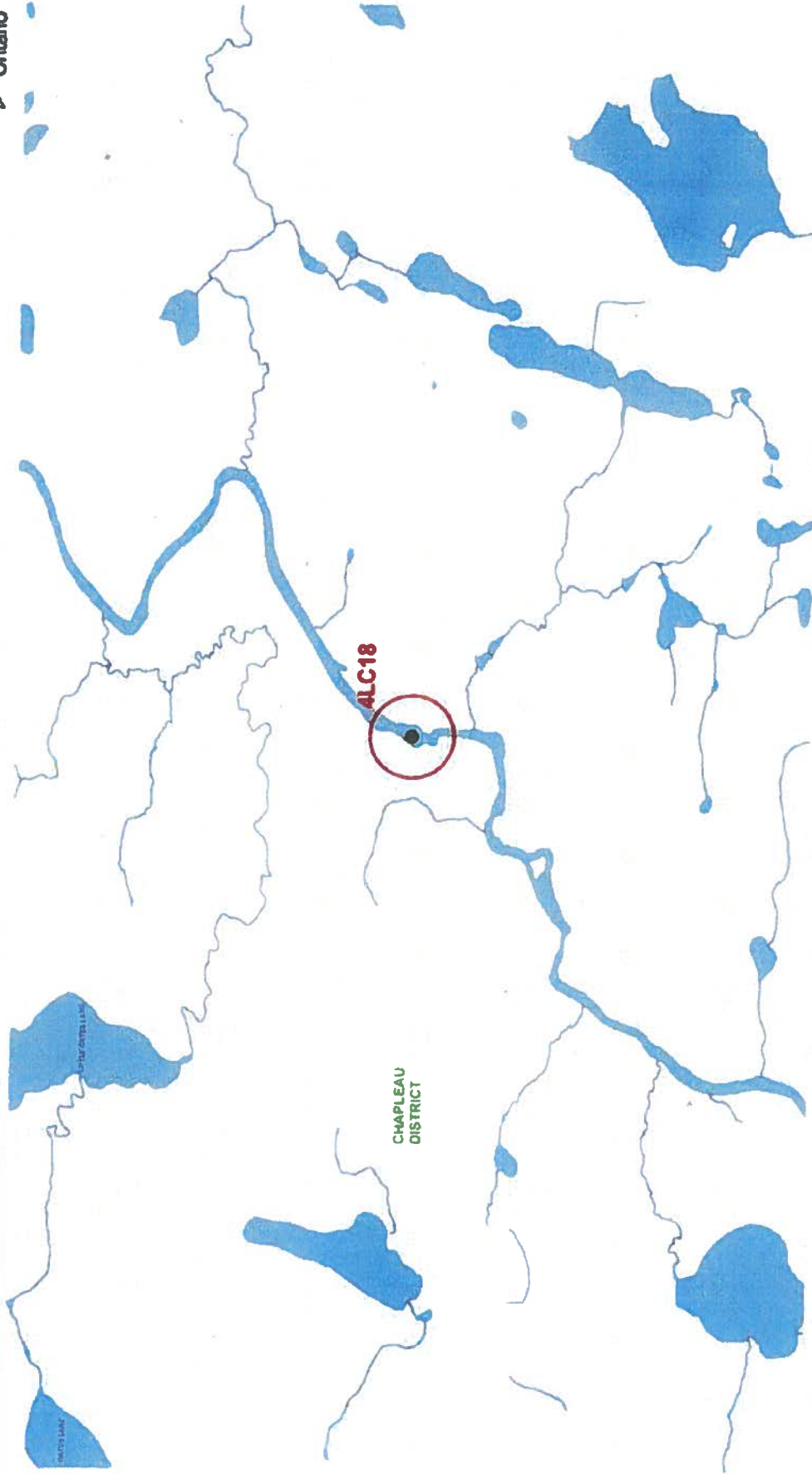
We note that the nature of land tenure and permitting related to Crown and private lands in Ontario is extremely complex and it is recommended that proponents retain expert advice in this regard.

Disclaimer

While every attempt has been made to ensure accuracy of the information provided, it is possible that additional tenure, legal or other issues may be revealed through further application review and approvals processes.

MNR APPLICATION MAP

WSR-2007-060



WATER POWER APPLICATION

- WATERPOWER SITE

PROTECTED AREA (PROVINCE OF ONTARIO)

- ROAD
- UTILITY LINE

1:25,000

NOTES:
The map shows the location of the proposed waterpower site. The map is not a site plan and does not show the details of the proposed project. The map is for informational purposes only. The map is not to be used for any other purpose. The map is not to be used for any other purpose. The map is not to be used for any other purpose.

LAND IN ONTARIO INCLUDES THE FOLLOWING: CROWN LAND, PRIVATE LAND, AND LAND OWNED BY THE GOVERNMENT OF ONTARIO. THE GOVERNMENT OF ONTARIO IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION ON THIS MAP. THE GOVERNMENT OF ONTARIO IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION ON THIS MAP. THE GOVERNMENT OF ONTARIO IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION ON THIS MAP.



5160 Yonge St., Suite 520, Toronto, ON M2N 6L9
tel 416-590-9362 fax 416-590-9955 www.xeneca.com

January 22, 2010

Mr. Paul Bernier
District Manager
Ministry of Natural Resources
Chapleau District
190 Cherry Street
Chapleau, ON
POM 1K0

Dear Mr. Bernier,

RE: Waterpower submissions to the Ontario Power Authority's Feed In Tariff program.

We would like to make you aware of the Waterpower on Crown Land Acknowledgement Letters, issued by the Minister of Natural Resources, Donna Cansfield, concerning several MNR sites in your district:

- 4LC18 (as per applicant 2124750 Ontario Inc. and Xeneca LP)
- 4LE01 (as per applicant 6773770 Canada Inc. and Xeneca LP)
- 4LC17 (as per applicant 2118964 Ontario Inc. and Xeneca LP)

As per the direction outlined in the attached letters from Minister Cansfield, 2124750 Ontario Inc. , 2118964 Ontario Inc and 6773770 Canada Inc. (ie., the Applicants) along with Xeneca LP (ie., the Applicant Team) have submitted the above MNR sites to the Ontario Power Authority's ("OPA") Feed In Tariff ("FIT") Launch program.

Xeneca Power Development Inc., on behalf of the Applicant, will initiate the task of scoping the environmental issues in preparation for field studies in the spring of 2010 in compliance with the Ministry of Environment's Renewable Energy Approval process (i.e., Waterpower Class EA). Field studies will commence only if the OPA issues a FIT contract. If not already done so, we request that your staff issue Site Description Packages for each site listed above and provide whatever assistance possible in order to complete this scoping task.

Attached are Letters of Authorization from the Applicants for Xeneca to act on their behalf.

We will follow-up with your office once the statuses of the FIT submissions are known.



5160 Yonge St., Suite 520, Toronto, ON M2N 6L9
tel 416-590-9362 fax 416-590-9955 www.xeneca.com

Please direct any question as it relates to the OPA's issuance of FIT contracts for all projects to myself, Vanesa Enskaitis. I have provided my contact information below.

Thank you for your kind consideration of these matters.

Yours very truly,

A handwritten signature in black ink, appearing to read "V. Enskaitis", is written over a horizontal line.

Vanesa Enskaitis
Public Affairs Liaison

Xeneca Power Development
5160 Yonge Street
Suite 520
North York, ON
M2N 6L9

T: 416-590-9362 X 104
F: 416-590-9955
E: venskaitis@xeneca.com



5160 Yonge St., Suite 520, Toronto, ON M2N 6L9
tel 416-590-9362 fax 416-590-9955 www.xeneca.com

February 3, 2010

Mr. Paul Bernier
District Manager
Ministry of Natural Resources
Chapleau District
190 Cherry Street
Chapleau, ON , P0M 1K0

Re: Waterpower Project Status

Dear Mr. Bernier,

With respect to MNR's renewable energy site release process, we have been notified by a third party requesting the current status of our projects. Listed below are the MNR sites in your District for which applications to the OPA's FIT launch program have been submitted:

- 4LC17
- 4LC18
- 4LE01

Please confirm the current status of each project, based on the following stages:

1. Application Fee Processed
2. MNR Provides Site Description Package
3. MNR and Applicant Scoping Meeting
4. Waterpower Application Declaration Form submitted
5. Aboriginal Community Engagement undertaken
6. a) District Manager Decision to proceed
b) District Manager Decision to delay
c) District Manager Decision to cancel
7. Public Notification undertaken
8. Applicant of Record awarded



5160 Yonge St., Suite 520, Toronto, ON M2N 6L9
tel 416-590-9362 fax 416-590-9955 www.xeneca.com

Thank you for your prompt response to this enquiry. We look forward to hearing back from you.

Yours truly,

A handwritten signature in black ink, appearing to read "V. Enskaitis", is written over a light blue horizontal line.

Vanesa Enskaitis

Public Affairs Liaison
Xeneca Power Development
T: 416-590-9362 X 104
F: 416-590-9955
E: venskaitis@xeneca.com

Muriel Kim

From: Tami Sugarman
Sent: February 26, 2010 5:32 PM
To: 'Bernier, Mike (MNR)'
Cc: 'Robert J. Steele'
Subject: RE: Proposed Xeneca Projects on the Ivanhoe River - Preliminary Information Package for March 3 teleconference call
Attachments: The Chute - Oblique Photo of Dam Site.JPG; Third Falls Oblique Photo.JPG

Hi Mike
I forgot to include these oblique photos for each site.
Tami

From: Tami Sugarman
Sent: February 25, 2010 5:57 PM
To: 'Bernier, Mike (MNR)'
Cc: Robert J. Steele
Subject: Proposed Xeneca Projects on the Ivanhoe River - Preliminary Information Package for March 3 teleconference call
Importance: High

Hello Mike

In preparation for our meeting next week on March 3, please find the preliminary information package containing a location map for both sites on the Ivanhoe River and the project concept layout and inundation maps for the "The Chute" site. Project concept and inundation maps for "Third Falls" site will follow shortly.

We look forward to our discussion with your team.
Best regards,
Tami

From: Bernier, Mike (MNR) [<mailto:mike.bernier@ontario.ca>]
Sent: February 23, 2010 8:18 AM
To: Tami Sugarman
Cc: Robert J. Steele
Subject: RE: Rescheduling Ivanhoe Conference Call

Tami,

We're confirmed for March 3, 1 – 4 pm.

Mike Bernier
Planning & Information Management Supervisor
Chapleau District
OMNR
705-864-3121
Fax 864-0681

From: Tami Sugarman [<mailto:tsugarman@oel-hydrosys.ca>]
Sent: Friday, February 19, 2010 5:06 PM
To: Bernier, Mike (MNR)
Cc: Robert J. Steele
Subject: RE: Rescheduling Ivanhoe Conference Call

Mike

We just received the mapping today. Rob and I will put together the package ASAP. Did you want to book sometime next week or later.

Our current (some time periods have opened up some have closed from our previous communication) availability is:

For the week of Feb 22 our team is available on the following dates: **Monday PM, Tuesday all day, Thursday all day, Friday PM.**

For the week of March 1st our team is available on the following dates: **Monday PM and Wed PM, Friday all day.**

For the week of March 8th our team is available on the following dates: **Monday to Thursday all day and Friday PM.**

Cheers,
Tami



Tami Sugarman, B.Sc., P.Geo. — Principal, Environmental Assessment and Approvals Coordinator

OEL-HydroSys Inc. — 3108 Carp Road - P.O. Box 430, Carp Ontario K0A 1L0

(T) (613) 839-1453 x229 (C) (613) 894-3509 (F) (613) 839-5376

tsugarman@oel-hydrosys.ca — www.wesa.ca

OEL-HydroSys, WESA Envir-Eau, WESA, WESA Technologies, members of WESA Group Inc.

NOTE: Si ce courriel ne vous est pas adressé, veuillez le supprimer immédiatement. La transmission non autorisée de ce courriel est interdite.



Pensez à l'environnement avant l'impression de ce courriel

From: Robert J. Steele [<mailto:steele@nrsl.on.ca>]
Sent: February 18, 2010 3:25 PM
To: 'Bernier, Mike (MNR)'
Cc: Tami Sugarman
Subject: Rescheduling Ivanhoe Conference Call

Mike

Please let Tami and I know if any of these times works for your team.



Robert J. Steele, B.Sc.
Senior Aquatic Biologist
Natural Resource Solutions Inc.
225 Labrador Drive, Unit 1
Waterloo, ON, N2K 4M8
(p) 519.725.2227
(f) 519.725.2575
(c) 519.577.1503
(e) steele@nrsl.on.ca
www.nrsl.on.ca

MINUTES OF PHASE 1 MEETING
Xeneca Power and Chapleau District MNR
Ivanhoe River Hydropower Development Project

Date: Wednesday, March 3, 2010 @ 13:00

Meeting Location: Teleconference Call

Prepared By: Karen Fortin

Attendees:

MNR Chapleau District:

- Mike Bernier, Planning and Information Management Supervisor
- Tim Mutter, District Planner
- Sarah Vascotto, Planning and Information Management Biologist
- Paul Bernier, Chapleau District Manager

Natural Resources Solutions Inc.

- Rob Steele, Lead Biologist

OEL-HydroSys Inc. (Engineering and Approvals Consultants):

- Tami Sugarman, Approvals Coordinator (TS)

Xeneca Power

- Don Chubbuck

The following Meeting Minutes were recorded by Tami Sugarman of OEL. The notes reflect the understanding of discussions held at the meeting and the interpretations or recollections of those present.

Item	Item Description	Action by
1.0	<p>Introductions were made.</p> <p>The purpose of the meeting was to introduce the project team to the Ministry and provide and discuss the upcoming spring field season.</p> <p>It was established that the project team is aware that Xeneca does not yet have Applicant of Record status for the site and recognized that in moving forward the proponent is assuming some level of risk however that the tight timelines established in the Green Energy Act makes the 2010 spring sampling season a crucial one.</p> <p>It was also confirmed that Xeneca has yet to secure a FIT contract for the site.</p>	
2.0	<p>The Chute - Natural Resource Solutions Inc:</p> <p>Rob identified that improved aerial photography was expected within the next few weeks. Rob detailed the anticipated upstream impacts and that these would likely extend to two or three incoming tributaries and that the</p>	

	<p>backwater influence may also involve wetland habitat.</p> <p>Rob explained the close-coupled powerhouse concept, eliminating the requirements for an extended bypass reach. He outlined that it was important to understand the habitat significance of the fast water in and around the island as it may experience some changes in flow pattern, both seasonally and daily. He asked the Ministry to share some insight about the Ivanhoe River.</p> <p>Sarah responded that walleye and northern pike have been documented in the river and that there was a likelihood of other species but in the absence of available data, it was difficult to identify what these might be. Sarah specified that there was spawning habitat (cobble) at the base of the chutes that would be favoured by walleye. She indicated that there was additional walleye habitat at the upper end of the identified zone of inundation below the bridge; this structure was reported to be intact and accessible. She added that there was a potential for northern pike upstream.</p> <p>Sarah described the downstream section of the river as meandering, with an approximate depth of 8-12 feet, with very little structure along the sandy bed. She added that the esker habitat may impact bank stability. Additional assessments should include sediment, hydrological, chemical and thermal regime characterization.</p> <p>Rob described NRSI's proposed scoping approach to habitat (aquatic and terrestrial) assessment (see attached description). He indicated that agreements have been established with other MNR offices in the past that would allow for some leeway at those sites where access to specific areas may be restricted by site and seasonal conditions.</p> <p>Mike reported that MNR Chapleau flew the Ivanhoe last year (downstream to Three Falls) and that the Ministry was willing to share this footage with NRSI.</p> <p>A question from Sarah regarding benthic invertebrate studies prompted a detailed discussion as to why these were not included in NRSI's scope of work for the site. NRSI qualified that if the Ministry was requesting this type of study and was able to provide guidance on how the data obtained from this study could be applied towards the EA, it would be done. MNR chose not to offer any additional comments about benthic invertebrates at this point.</p> <p>Rob said he would be submitting a formal background data review to the MNR office and a request for a scientific collector's permit.</p>	<p>MNR to forward DVD to NRSI</p>
3.0	MNR	

	<p>The comment was made by MNR that the proponent was perhaps getting a bit ahead of the process.</p> <p>MNR was unable to provide a definitive turnaround time on issuing a permit, adding that the request for a permit triggers an MNR EA.</p> <p>A discussion as to how the district office would like to see the permit application package ensued. MNR identified that the more information on the application the better and that in addition to the application, the Ministry would require text detailing the scope of the investigation, similar to what had been provided verbally by NRSI during the meeting.</p> <p>The Ministry advised that the permit application should be submitted as soon as possible and that all requests for information be directed to Tim Mutter who will be acting as lead on the file.</p> <p>Sarah added that the initial submission filed with the MNR by Xeneca was considered to be deficient with regards to the residual flows used in the RETScreen™ analysis and that the Ministry had communicated this to the proponent. It was identified that the MNR's expectation is a residual flow value of Q80.</p> <p>Tim sought clarification as to the purpose of the proposed embankment dam on of the tributaries because this structure was not included in the initial site application. Rob suggested that these were normally earthen structures but that he would follow up with Xeneca for clarification, he added that any field investigations would address the area.</p> <p>The MNR identified that it was in discussions with the MOE about consultation requirements for the area, adding that the Ivanhoe River held significant socio-economic importance for the towns of Foleyet, Timmins and Chapleau.</p> <p>Sarah added that beaver and muskrat trails are present as well as moose aquatic feeding areas along the shoreline of the Ivanhoe in the vicinity of the Chute but she was unable to confirm where.</p>	<p>Follow up on embankment dam at Chute – NRSI Additional Note: Xeneca consulting Engineers have indicated that this is an earthen structure designed to contain the headpond</p>
4.0	Third Falls – MNR	

	<p>Sarah reported that although she had not been to the site, it could be assumed that there was walleye in the area.</p> <p>She added that lake sturgeon was documented 17km downstream of the site on the Ivanhoe. She identified that there was a natural barrier (near the confluence of the Ivanhoe and Groundhog Rivers) that likely limits upstream migration of the fish.</p>	
5.0	Meeting was adjourned at 14:30	

Record Issued March 4, 2010 DRAFT for acceptance by participants.\

Scoping Approach

Terrestrial Studies

Floral inventories - June through September period (spring and fall)
Occur in reservoir areas as well as footprint impact areas

ELC mapping of inundation zone as well as footprint areas

Breeding birds OBBA protocols - point counts as well as general observations 5 to 6 stations.
Two separate visits in June with 15 days between. Some stations in inundations area as well as footprint

Amphibians - about five stations - Ontario Marsh monitoring protocol- April May and June

Lists

Plants, mammals, herps, birds, butterflies

Aquatic Studies

Fish Community - generalized

- Electrofisher (boat and backpack)
- Angling
- Short duration gill net sets
- Seining
- Trap netting
- Minnow traps and Dip netting

In main river and in tribs

Fish habitat

Focusing on critical habitats like spawning, feeding and nursery

Function determined through survey

Aeral extent documented and mapped

Mercury

Sportfish contaminant - total mercury in fish flesh

SAR specific studies - only if there are known populations in the area. Always looking anyway as part of fieldwork

Locating stations - will be habitat based not in every location of a habitat type



NATURAL RESOURCE SOLUTIONS INC.

Aquatic, Terrestrial and Wetland Biologists

Memo

Project No. 1016

To: Mike Bernier, Chapleau District MNR

From: Rob Steele, Natural Resource Solutions Inc.

Date: March 5, 2010

Re: Background Information

Natural Resource Solutions Inc. has been retained by Xeneca Power to conduct biological surveys in preparation for proposed hydroelectric development at The Chute and Third Falls on the Ivanhoe River located approximately 17km and 41km north of the town of Foleyet respectively.

Two maps are attached, depicting the boundaries of the study area at the each site. We would like obtain information for that area plus an additional 1 km surrounding the study site.

We would like to request any information on the natural resources in the study area, such as the following:

- Fisheries assessments,
- Fish collection records and rare species,
- Drain classifications,
- Wetland evaluations,
- Areas of Natural and Scientific Interest
- Provincially Significant Wetlands
- Environmentally Sensitive Areas
- VTE species, significant wildlife habitats (i.e. raptor nesting, colonial species nests, deer yards and feeding areas)
- Any species lists relating to animals and vegetation
- Vegetation mapping, floristic inventories.

Natural Resource Solutions Inc. will be commencing field work in April of 2010, and we would be available to meet with you to pick up any material and discuss this project just prior to our spring fieldwork. Please call if you have any questions or comments.





Google

Earth - 2007

Thumbnails

Images of the Earth from space
as seen from the ground

2007-01-01 12:00:00 UTC



NATURAL RESOURCE SOLUTIONS INC.

Aquatic, Terrestrial and Wetland Biologists

#1016

March 5, 2010

Mr. Mike Bernier
Planning and Information Management Supervisor
Ontario Ministry of Natural Resources
Chapleau District
190 Cherry Street, P0M 1K0

Re: Request for Scientific Collection Permit

Dear Mike,

Please accept this application for a scientific collector's permit for work to be done in support of the Class EA for Xeneca Power's proposed hydroelectric developments at the Chutes and Third Falls on the Ivanhoe River.

During our recent conference call, I outlined for you and your staff a generalized scope of work that has been developed to address potential natural environment issues associated with these projects. While we realize that this project is in its early stages and that MNR has not yet reviewed or committed to a specific scope of work, the opportunity to provide some perspective on our intended work was very much appreciated.

To summarize, this is our intended preliminary scope of work

- Floral inventories - June through September period (spring and fall) in reservoir areas as well as footprint impact areas
- ELC mapping of inundation zone as well as footprint impact areas
- Breeding bird surveys using OBBA protocols - point counts as well as general observations. Two separate visits in June with 15 days between. Some stations in inundation area as well as footprint impact areas
- Amphibian survey using the Ontario Marsh monitoring protocol- April May and June
- Complete species lists for fish, plants, mammals, herptiles, birds, butterflies
- Generalized fish community sampling
- Fish habitat mapping of critical habitats including spawning, feeding and nursery
- Documentation of the area extent of identified fish habitats
- Walleye spawning surveys
- Sportfish contaminant monitoring - total mercury in fish flesh



NATURAL RESOURCE SOLUTIONS INC.

Aquatic, Terrestrial and Wetland Biologists

We will conduct species-at-risk specific studies only if there are known populations in the area or if MNR has strong reason to believe that they may be present. Having said this, we are always looking for any species as part of our routine fieldwork and, should a species-at-risk be documented, we would negotiate species specific studies to follow with MNR.

Please also note that sampling will be habitat based and not every specific location of a given habitat type will be sampled particularly where access is an issue.

In very immediate terms, if Xeneca Power is awarded a Feed-in-Tariff contract for these sites, Natural Resource Solutions Inc. (NRSI) intends to conduct a walleye spawning assessment in early spring 2010. Our goal is to locate spawning walleye and identify preferred spawning habitat within the study areas for The Chute and Third Falls projects. As part of the spawning survey walleye are to be collected enumerated and marked (with fin clip) to assess populations using identified habitats. The preferred method for finding spawning walleye in rivers with high flows and velocities is angling which covers the most habitats in a short period of time. Egg mats will be deployed when walleye are located to collect eggs for identification and to confirm spawning.

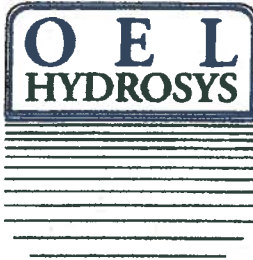
Although we would ideally like to receive a permit which covers all methods for field surveys over all seasons (see attached application), at a minimum, we will require a permit for the spring walleye work. Sampling methods have been included on the request application for both walleye spawning surveys and fisheries community assessments in general.

The study area to be assessed is shown on the attached map. Please advise as to when we might expect a permit to be issued. If you have any concerns or questions please contact the office at your convenience.

Sincerely,
Natural Resource Solutions Inc.

Robert J. Steele, B.Sc.
Principal / Senior Aquatic Biologist

March 15, 2010



Box 430, 3108 Carp Road, Carp, Ontario Canada K0A 1L0

Telephone: (613) 839-1453

Fax: (613) 839-5276

Mike Bernier, District Planner
Ministry of Natural Resources
190 Cherry Street,
Chapleau, Ontario, P0M 1K0

**Re: Early Notification of Proposed Waterpower Project – Ivanhoe River
Xeneca Power Development Inc.**

Dear Mr Bernier:

This letter is to advise you that the proponent, Xeneca Power Development Inc. (Xeneca), has plans for the development of two new hydroelectric generating stations on the Ivanhoe River (please see attached mapping). The development will be following the OWA Class Environmental Assessment for Waterpower Projects and is currently in the project description and coordination phase of the planning process.

We may or may not have had the opportunity to speak with you directly regarding the proposed project(s), however, if we have had the opportunity for your team to provide some perspective on our intended work your involvement to date was very much appreciated.

We realize that this project is in its' early stages, however, if Xeneca is awarded a Feed-in-Tariff contract for proposed site(s) on the Ivanhoe River, we intend to begin a series of assessments in early spring in order to address season-sensitive potential natural environment issues associated with these projects. To that end we would like to take this opportunity to request the following from your office:

1. Background natural heritage information you may be able to provide on the project area(s).
2. Scientific Collector's permit

The details of the information we require are attached to this letter along with the scientific collector's permit application.

As Xeneca moves forward with the sites that are awarded FIT contracts we look forward to meeting with you as soon as possible to plan these projects in an environmentally responsible and efficient manner. Please do not hesitate to contact the undersigned if you have any questions.

Yours Truly,

A handwritten signature in blue ink, appearing to read 'Tami J. Sugarman', is written over a horizontal line.

Tami J. Sugarman
Approvals Coordinator
OEL-HydroSys Inc.



5160 Yonge St., Suite 520, Toronto, ON M2N 6L9
tel 416-590-9362 fax 416-590-9955 www.xeneca.com

May 13, 2010

Paul Bernier
District Manager
Chapleau District MNR
190 Cherry Street
Chapleau, ON P0M 1K0

Dear Mr. Bernier

I am writing concerning:

Ivanhoe: The Chute – MNR site #4LC18
Ivanhoe: 3rd Falls – MNR site #4LC17
Outlet Kapuskasing Lake – MNR site #4LE01

As the Applicant, we wish to outline our commitment to meet the ***WATERPOWER SITE RELEASE – CROWN LAND*** (PL 4.10.05) issued April 16, 2010. Specifically the goals as they relate to Aboriginal peoples Section 2.2:

- a. *"fulfill its duty to consult with Aboriginal peoples where its actions may adversely affect an established or asserted Aboriginal or treaty right;" and*
- b. *"support creation of environmentally sustainable economic opportunities for Aboriginal communities through the disposition of Crown land for greenfield sites."*

Applicant is prepared to support the Crown's consultation responsibilities and request at the earliest opportunity discussions concerning what will be required during the ***Class Environmental Assessment for Waterpower Projects***.

Applicant is also prepared to enter into open-ended discussions concerning environmentally sustainable economic opportunities for Aboriginal communities. Applicant is prepared to enter into these discussions once the Ministry of Natural Resources has completed appropriate processes as they related to FIT/ECT projects.

Thank you for your kind consideration and we look forward to work with you concerning these Policy goals.

Yours very truly,

A handwritten signature in black ink, appearing to read "Patrick W. Gillette", is written over a horizontal line.

Patrick W. Gillette
President and COO

cc. Minister of Energy and Industry (Process Window).



5160 Yonge St., Suite 520, Toronto, ON M2N 6L9
tel 416-590-9362 fax 416-590-9955 www.xeneca.com

May 13, 2010

Paul Bernier
District Manager
Chapleau District MNR
190 Cherry Street
Chapleau, ON P0M 1K0

Dear Mr. Bernier

As you may be aware, Xeneca Power Development Inc. and Xeneca LP (i.e., "the Applicant") have been awarded FIT contracts on the following sites in your District:

Ivanhoe: The Chute – MNR site #4LC18
Ivanhoe: 3rd Falls – MNR site #4LC17
Outlet Kapuskasing Lake – MNR site #4LE01

I want to thank your District for your assistance in making this possible.

Upon review, you may be aware the Ontario Power Authority ("OPA") schedule will prove challenging to both the Applicant and the affected government Ministries as we now have less than 60 months to bring these waterpower projects to commercial operation. This concurs with an analysis of the process by the Ontario Waterpower Association, industry experts and our consultants.

To move forward in a timely manner, we are requesting the following:

- Notifications to be issued or reissued to the First Nation's Communities as per the MNR Policy and Procedures.
- MNR consultation commence at the earliest opportunity with the First Nation Communities with a focus on bringing the parties together to discuss a business relationship. Environmental and technical issues can be discussed from a process and issue perspective, but given the project(s) are at a preliminary stage answers to these issues need to be deferred to the Class EA for Waterpower; this is aligned with the current policy.
- The Applicant be allowed to start its Business Relationship discussions at the earliest opportunity with the First Nation Communities.

To meet the Ministry of Natural Resources requirements under its Policy and Procedures, please find enclosed a Letter to the District copied to the Minister of Energy and Industry Office (i.e., the process window) outlining the Applicant's commitment to meeting the objectives outlined in *Waterpower Site Release – Crown Land (PL.4.10.05), Section 2.2* concerning "economic opportunities for Aboriginal communities."

Further, the Applicant requests that, if not already provided, the *Waterpower Applicant Declaration Form* for the projects be provided with any information (e.g., Site Description Package) on the site as soon as possible. Applicant request to defer any further process or meetings; it has determined the site is viable and wishes to proceed and will sign-back this form in a timely manner.

Please note the Applicant is prepared to meet with the District by teleconference to discuss any issues, but suggests this step be taken once MNR has completed its First Nation consultation and is prepared to allow the Applicant to proceed to Business to Business discussions with the First Nation Communities and initial inter agency meetings have occurred.

Applicant requests that MNR District Office participate in the inter-agency meetings in preparation to for "Notice of Commencement," of the Waterpower Class Environmental Assessment and that the District Office expedite the issuance of any permits from the Applicant and/or its consultants in order to conduct studies on the Project; e.g., Habitat or Archeological. Applicant requests the District provide any further site information within that process once the *Waterpower Applicant Declaration Form* has been signed and returned.

Finally, the Applicant also requests that the District outline in a timely manner current issues that need to be addressed during the *Class Environmental Assessment for Waterpower Projects* and prior to issuance of Location Approval.

Please contact Xeneca Power Development Inc. with any questions or concerns.

Yours very truly,



Patrick W. Gillette
President & COO



Ministry of
Natural
Resources

Ministère des
Richesses
naturelles

Visit us at our website <http://www.gov.on.ca>

Call any MNR Office in Ontario for information at -
1-800-667-1940 (English) ... or ... 1-800-667-184 (French)
8:30 am to 5:00 pm - Monday to Friday

Ministry of Natural Resources
190 Cherry Street
P.O. Box 460
Chapleau, ON P0M 1K0

Telephone: (705) 864-1710
Facsimile: (705) 864-0681

May 25, 2010

Patrick Gillette
Xeneca Power Development Inc.
5160 Yonge St., Suite 520
Toronto, Ontario M2N 6L9

RE: Waterpower Development Site Release

Dear Mr. Gillette,

Thank you for your letter dated May 13, 2010 in which you request several items related to the site release process involving your waterpower applications for the following sites:

Ivanhoe River – The Chutes (#4LC18)
Ivanhoe River – Third Falls (#4LC17)
Outlet of Kapuskasing Lake (#4LE01)

As you may recall, all of the above sites fall within MNR's Chapleau District, however, the site release process for the Outlet of Kapuskasing Lake is being led by Hearst District for logistical purposes. We understand that you have been in close contact with staff in Hearst and we would ask that you deal directly with them in relation to that site. MNR Chapleau District is administering the site release process for the two Ivanhoe River sites and we will continue to communicate directly with you on these particular sites.

With respect to Aboriginal engagement, Chapleau District staff are currently working with the relevant government officials to determine the communities of interest in relation to the proposed developments on the Ivanhoe River. This information is being vetted through the Consultation Coordination Committee, and we expect a list of communities will be developed within the next few weeks. At that time, my staff and I will endeavour to meet with the respective communities to engage in initial discussions related to the proposed site developments.

.../2

Page 2
May 25, 2010
Mr. Patrick Gillette

When a decision to proceed with the site release process is given, we will provide you with a Site Information Package (SIP) for both of the Ivanhoe River sites in a timely manner. The SIP will contain all relevant information about the sites, including known biological features and any socio-economic considerations. We will also provide recent hydrology data and aerial video footage of the river system. Subsequent to the delivery of the SIP, we will request a meeting with you to discuss the content of the Site Information Package, address any questions or concerns you may have, and outline our expectations for the remaining steps in the procedure (Waterpower Site Release Procedure 4.10.05, step 1.2.4c).

Following the MNR/ Applicant meeting described above, and upon receipt of the Waterpower Applicant Declaration Form, I will be prepared to give further direction with respect to engaging the selected Aboriginal communities in business relationship. I anticipate that we will be in a position to recommend business relationship discussions with these communities by mid-summer of this year; however, this will depend on the availability and capacity of the communities involved. We will advise you periodically as to the progression of these discussions.

I appreciate your willingness to support the Crown's consultation obligations as well as carefully consider economic development opportunities for local Aboriginal communities. I trust that the above information provides some clarity regarding the next steps in the process.

Once again, thank-you for your interest in the development of sustainable waterpower opportunities in Chapleau District and I look forward to a productive relationship as we move through the remaining steps of the waterpower site release policy and procedure.

If you have any further questions, please don't hesitate to contact Bill Guthrie (705-864-3167) or Tim Mutter (705-864-3139) of this office.

Sincerely,

Original Signed

Paul Bernier
District Manager
Chapleau District

c: Martha Heidenheim – MNR Hearst District Manager



5160 Yonge St., Suite 520, Toronto, ON M2N 6L9
tel 416-590-9362 fax 416-590-9955 www.xeneca.com

June 10, 2010

Mr. Paul Bernier
District Manager
Chapleau District MNR
190 Cherry Street
Chapleau, ON P0M 1K0

Dear Mr. Bernier,

As follow-up to our May 13th letter to your office, please find enclosed information related to waterpower development under Ontario Power Authority's ("OPA") Feed in Tariff ("FIT") Contract within the Chapleau MNR District.

The projects are:

Ivanhoe: The Chute – MNR site # 4LC18
Ivanhoe: Third Falls – MNR site # 4LC17
Outlet Kapuskasing Lake – MNR site # 4LE01

The attached map on CD will provide greater clarity on the location of the projects. If required, supplementary maps are available upon request.

Further, please find attached:

- Draft Notice of Commencement's for the Waterpower Class EA
- Brief project description's
- Copies of correspondence to your office regarding our projects.

Upon review, you may be aware the OPA schedule will prove challenging to both Xeneca and the affected government ministries, as we now have less than 60 months to bring these waterpower projects to commercial operation. This concurs with an analysis of the process by the Ontario Waterpower Association, industry experts and our consultants.

To move forward in a timely manner, we request the following:

1. Notifications to be issued or reissued to the First Nation's Communities as per the MNR Policy and Procedures.



2. MNR consultation to commence at the earliest opportunity with the First Nation Communities with a focus on bringing the parties together to discuss a business relationship. Environmental and technical issues can be discussed from a process and issue perspective, but given the project(s) are at a preliminary stage, answers to these issues need to be deferred to the Class EA for Waterpower; this is aligned with the current policy.
3. Permission granted to Xeneca to begin its Business Relationship discussions at the earliest opportunity with the First Nation Communities.

Further, we request that that MNR District Office expedite the issuance of any permits from Xeneca and/or its consultants in order to conduct studies on the Project; e.g., Habitat or Archeological. We also request the *Waterpower Applicant Declaration Form* for the projects be provided as soon as possible, along with any further site information. We ask the District to outline in a timely manner, current issues that need to be addressed during the *Class Environmental Assessment for Waterpower Projects* prior to issuance of Location Approval.

We request to defer any further processes or meetings until the site is deemed viable, approved and this form is signed in a timely manner. Please note that Xeneca is prepared to meet with the District by teleconference to discuss any issues. However, we suggest this step be taken once MNR has completed its First Nation consultation and is prepared to allow Xeneca to proceed with Business-to-Business discussions with the First Nation Communities once initial inter-agency meetings have occurred.

Please contact Xeneca Power Development Inc. with any questions or concerns.

Yours truly,

A handwritten signature in black ink, appearing to read "Patrick Gillette", is written over a horizontal line.

Patrick Gillette
President and COO
Xeneca Power Development LP



5160 Yonge St., Suite 520, Toronto, ON M2N 6L9
tel 416-590-9362 fax 416-590-9955 www.xeneca.com

July 6, 2010

Paul Bernier
District Manager
Chapleau MNR
100 Cherry St.
Chapleau, ON P0M 1K0

Dear Mr. Bernier:

RE: Options to process sites awarded FIT Contracts

As outlined in previous correspondence, Xeneca Power Development Inc. has been awarded Feed In Tariff ("FIT") Contracts within your District:

- Ivanhoe: The Chute – MNR Site # - 4LC18
- Ivanhoe: Third Falls - MNR Site # - 4LC17
- Outlet Kapuskasing Lake - MNR Site # - 4LE01

Xeneca is also preparing Phase I of the *Class Environmental Assessment for Waterpower Projects* ("Class EA") and will need to commence with Phase II as early as possible in order to meet the Ontario Power Authority's ("OPA") deadline for project commissioning. These steps are being taken to alleviate time pressures on both Xeneca and the regulatory agencies.

At this juncture, Xeneca has 57 months to bring the projects within your District to commercial operation. Given that 24 months is required for construction, this leaves just 33 months to complete all Class EA tasks, issue the Location Approval from the District, and then complete the following:

- Design review and approval
- Tenure (Interim Waterpower Lease Agreement)
- All other permits and approvals

The District will play a crucial role in all of these stages. Xeneca recognizes that the 130 FIT contracts on Crown lands, as well as the remaining 60 in Economic Connection Test (ECT) status, will pose a challenge for MNR and for your District in regard to resources and time.

Xeneca believes the following solutions will help to alleviate some of the challenges for your District created by the FIT program timeline:

- Xeneca participation in programs that sponsor or support students/ interns working at your District Offices.
- Where possible, Xeneca would like to complete tasks that require prolonged review such as design or operation plans.
- Combining Class EA activities with other aligned objectives.

An alternative is to bypass the Site Review process and receive Conditional Applicant of Record status under the condition that a FIT Contract is issued. This would allow Xeneca to proceed into the Class EA process with a series of MNR defined tasks to be completed prior to submission for Location Approval.

As you are aware, Location Approval is the point at which the MNR, under the *Lakes and Rivers Improvement Act*, recognizes the project and begins the process of approving design and issuing approvals, permits and tenure. Given that Applicant of Record has very little meaning in the overall development process, and, given the time and resource challenges faced by all parties, the Conditional Applicant of Record may be a preferred option.

The District would still need to provide Xeneca with the names of the First Nation Communities eligible to discuss benefits in relation to the projects. First Nation benefit discussions would be a condition of the "Applicant of Record" status, or a milestone to be completed prior to the Location Approval.

Until the Class EA is completed, the actual design and operation of the waterpower plant is uncertain. This means the economic viability of the project is essentially unknown as mitigation of environmental or other issues could lead to the cancellation of the project and the subsequent request to withdraw the site. Potential effects on riparian landowners, parks or other land in proximity to the project will be clearly identified as well as the viability of the project.

We feel you will agree that environmental concerns and technical issues that have been, or will be, raised by your staff are best addressed during the Class EA where the perspectives of additional regulatory agencies, First Nations, and stakeholders are also addressed. Solutions raised prematurely during the Site Release process may be challenged in order to address the concerns raised by other parties.

With respect to the MNR's First Nations component of the Site Release process, please be advised that Xeneca is committed to developing Business Relationships with those Communities identified as

affected and/or eligible for benefits. This commitment has been made in the attached letter as well as publicly (see attached from the *Globe and Mail's* **Report on Business**).

However, Xeneca is concerned that the provincial and federal processes are not aligned. Confusion still remains over the designation of the affected First Nations Communities and how program eligibility may be applied. Combining consultation (MNR and Applicant) with Business Relationship discussions is a natural fit, and this will provide the 1 – 2 year window we believe necessary to reach agreement with the First Nation Communities.

An advantage to both parties will be the ability to focus on the Class EA process while Site Release and other issues are addressed in parallel with no risk to the District Office in achieving alignment with overarching MNR policy. All decisions are deferred, at the applicant's risk, to the Location Approval.

In summary, we believe our recommendations will minimize duplication of the process, thereby allowing critical MNR resources to be focused on the important work of assuring all environmental, social and economic issues are addressed.

It may be noteworthy that one MNR District is moving ahead with this option, and we respectfully request you and your district colleagues consider similar action.

Thank you for your kind consideration and please call with any questions.

Yours very truly,

Patrick W. Gillette
President & COO

Xeneca Power Development Inc.
5160 Yonge Street
North York, ON
M2N 6L9
Tel: 416-590-9362
Fax: 416-590-9955



5160 Yonge St., Suite 520, Toronto, ON M2N 6L9
tel 416-590-9362 fax 416-590-9955 www.xeneca.com

July 13, 2010

Mr. Paul Bernier
District Manager
Chapleau District MNR
190 Cherry Street
Chapleau, ON P0M 1K0

Dear Mr. Bernier,

RE: Notice of Commencement for Waterpower Class Environmental Assessment

As outlined in previous correspondence, Xeneca Power Development Inc. has been awarded Feed In Tariff ("FIT") Contracts for the following projects within your District:

Ivanhoe: The Chute – MNR site # 4LC18
Ivanhoe: Third Falls – MNR site # 4LC17
Outlet Kapuskasing Lake – MNR site # 4LE01

Xeneca has completed Phase I of the *Class Environmental Assessment for Waterpower Projects* ("Class EA") and will now issue public Notices of Commencement (NoC) under the Waterpower Class EA for the above projects in your area. A draft copy of the NoC was sent to your office on June 10 (a final version of the NoC is attached to this letter). These steps are being taken in order to comply with timeline performance constraints demanded by the Ontario Power Authority ("OPA") for execution of FIT contracts. Further, to this end, we would like to engage with you in a process of sharing information, for your consideration and input, on the development of the project as it becomes available during the Class EA. We will prepare project progress updates and information packages for you on a regular basis. In addition, we will need to have regular face-to-face or teleconference progress meetings.

At this juncture, Xeneca has less than 57 months to successfully complete the EA and post-EA approval process, plan and potentially execute construction activities and arrange ordering and potential installation of equipment for each project in your District. Given that 24 months is required for construction and commissioning, this leaves just 33 months to complete all Class EA tasks, issue the Location Approval from the District, and then also complete the following:

- Design review and approval
- Tenure (Interim Waterpower Lease Agreement)
- All other post-EA permits and approvals

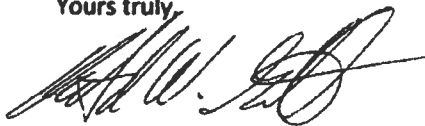
The District will play a crucial role in all of these stages. Xeneca recognizes that the 130 FIT contracts on Crown lands, as well as the remaining 60 in Economic Connection Test (ECT) status, will pose a challenge for MNR and for your District in terms of resources and time. We understand the pressure you are working under and we suggest that regular information sharing and meetings will be beneficial during the next several years of hard work for all of us on implementing these FIT contracts.

As the Class EA process unfolds, the expected design and operation of the waterpower plant will be more clearly understood as will the economic viability of the project. We feel that environmental concerns and technical issues that have been, or will be, raised by your staff are best addressed during the Class EA, as information becomes available and as we gain perspectives on our projects from other regulatory agencies, First Nations, and all stakeholders.

Further, if you have not already done so, we kindly request that you expedite issuance of the names of the First Nation Communities eligible to discuss benefits in relation to these projects in your District. First Nation benefit discussions are an important element of the development process and a milestone that needs immediate attention for it to be completed prior to Location Approval. Xeneca is committed to developing Business Relationships with the Communities you identify as affected and/or eligible for benefits.

Thank you for your kind consideration and please contact us if you have any questions.

Yours truly,



Patrick W. Gillette
President & COO
Xeneca Power Development Inc.
5160 Yonge Street
North York, On
M2N 6L9
Tel: 416-590-9362
Fax: 416-590-9955

cc. Mark Holmes, Arnold Chan, Edmond Laratta

Ministry of
Natural Resources
Regional Director's Office
Southern Region
P.O. Box 7000, 300 Water Street
Peterborough, Ontario K9J 8M5

Ministère des
Richesses naturelles
Telephone: (705) 755-3235
Facsimile: (705) 755-3233



September 20, 2010

RECEIVED
OCT 01 2010

Mr. Patrick Gillette
Xeneca Power Development Inc.
5160 Yonge St., Suite 520
Toronto, Ontario
M2N 6L9

Dear Mr. Gillette:

Thank you for your recent letters and notification schedule received by our district offices related to the commencement of your Water Power Class Environmental Assessments for several waterpower sites. Please accept this reply on behalf of my colleague MNR Regional Directors in our Northwest and Northeast Regions.

This ministry is committed to supporting the government's renewable energy agenda, including the important role that waterpower can play in Ontario's energy future. MNR seeks to ensure that all waterpower projects in Ontario follow an efficient and streamlined process.

As outlined in MNR's Waterpower Site Release Policy and Procedure PL4.10.05, the EA stage generally occurs after the applicant has been issued Applicant of Record status by MNR. Applicant of Record status is the completion of a process to select an appropriate applicant for potential development and the granting of the ability to pursue other required approvals and permits.

The final decision concerning the disposition and development of a potential waterpower site on Crown land rests with the Ministry and the Minister has the sole authority to approve or deny any application for the use of Crown land under the *Public Lands Act* (Ontario) for legislative, regulatory and/or policy reasons. Additionally, when disposing of Crown land rights or interests, the Ministry must fulfil its duty to consult with Aboriginal groups, where its actions may adversely affect an established or asserted Aboriginal or Treaty Right.

Since the policy's 2004 origin, MNR has consistently required that applicants follow the PL 4.10.05 Policies and Procedure when undergoing the site release process. We recognize however that the Ontario Power Authority (OPA) feed-in-tariff program and the volume of contracts awarded in April 2010 by OPA to the waterpower industry, present new challenges for government, industry and stakeholders.

For this reason, and as discussed by Ken Cain and Jim Beal of MNR with Xeneca on September 14, 2010, MNR is committed to actively participating in the proponent led EA's for waterpower projects with FIT contracts, along with other federal and provincial agencies, while Xeneca works its way through the site release process.

Continued.../2

We need to be clear with industry though that initiating an EA does not affect MNR's decision on site release. Any work done or resources expended before the site release process is complete, is done so at the applicant's risk. As such, MNR still recommends that the site release process be completed before an applicant formally commences the Waterpower Class EA process. This sequential approach will ensure that an applicant has secured access to the site, prior to taking steps towards obtaining other approvals.

Finally, in order to support the development of waterpower projects in Ontario, MNR places a priority on applications for site release from applicants who have been offered FIT contracts, as these projects are subject to the timelines associated with the F.I.T program.

If you have any questions related to MNR's field delivery of our approach to Crown land site release and our involvement in EA's for waterpower, please do not hesitate to contact Jim Beal at 705-755-3203. MNR looks forward to continuing to work with Xeneca and other waterpower industry proponents, as we work to collectively implement Ontario's commitment to renewable energy.

Sincerely,



Carrie Hayward
Director
Southern Region

cc: Eric Boysen, Director, Biodiversity Branch and Renewable Energy Program
Ken Cain, Manager, Renewable Energy Program
MNR Regional Directors: Northwest and Northeast Regions
Agatha Garcia-Wright, Director, Environmental Assessment and Approvals Branch,
Ministry of the Environment
Paul Norris, Ontario Waterpower Association

Sub. 37. to 67.

37. to 57.
meeting
- Sld should
over.

Muriel Kim

Subject: FW: Ivanhoe River and EA

From: Patrick Gillette
Sent: October 1, 2010 4:35 PM
To: Mutter, Tim (MNR); Ed Laratta; Arnold Chan; Mark Holmes
Cc: paul.bernier@ontario.ca; Don Chubbuck
Subject: RE: Ivanhoe River and EA

Hi Tim:

Thank you for the clarification and it looks like there was a little bit of broken telephone as the consultants talk to my staff.

I will let Ed Laratta know that your office will engage as required and be ready to fully engage once the SDP's are prepared and we have completed a few more steps in the MNR's Site Release process.

As always I appreciate your professionalism in the management of this file and it's a pleasure working with your District.

Have a great weekend.

Cheers,

Patrick

Patrick W. Gillette BA, MES, MPA
5160 Yonge Sttreet
Suite 520
North York, Ontario, Canada
M2N 6L9
Tel: 416-590-9362
Cell: 416-697-4004
Fax: 416-590-9955

From: Mutter, Tim (MNR) [mailto:tim.mutter@ontario.ca]
Sent: Thursday, September 30, 2010 9:57 AM
To: Patrick Gillette; Ed Laratta; Arnold Chan; Mark Holmes
Subject: RE: Ivanhoe River and EA

I tried to call you. I'm available for a chat today, however, I am presenting to the Regional Director this morning and will be away from my desk from approx. 10:30-1:30.

I'll be in touch...

Tim Mutter
District Planner
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139

Fax. 705-864-0681
email:tim.mutter@ontario.ca

From: Patrick Gillette [mailto:pgillette@xeneca.com]
Sent: Wednesday, September 29, 2010 5:11 PM
To: Ed Laratta; Arnold Chan; Mutter, Tim (MNR); Mark Holmes
Subject: RE: Ivanhoe River and EA

Hey Tim:

Lets chat.

Jim Beal and Ken Cain where in our office and told us Districts would engage and wanted me to refer this type of email to them. Prefer to talk to you first.

So you are aware we are cool; as long as we have our permits and can do our studies and meet our stakeholder obligations we will support the District's decision. MNR District's engagement in the Class EA is voluntary as long as it's understood that it limits your input into the process.

Hope all is well; been out bear hunting?

Cheers,

Patrick

Patrick W. Gillette BA, MES, MPA
5160 Yonge Sttreet
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North York, Ontario, Canada
M2N 6L9
Tel: 416-590-9362
Cell: 416-697-4004
Fax: 416-590-9955

From: Ed Laratta
Sent: Friday, September 24, 2010 3:49 PM
To: Patrick Gillette; Arnold Chan
Subject: FW: Ivanhoe River ESA Briefing --- Tim Mutter

Pat/Arnold: see email below from Tim on AoR and WSR.

From: Dan Gibson [mailto:dgibson@nrsl.on.ca]
Sent: September 24, 2010 8:33 AM
To: 'Dave Green'; steele@nrsl.on.ca; Ed Laratta; tsugarman@oel-hydrosys.ca
Subject: FW: Ivanhoe River ESA Briefing

Correspondence from Chapleau district MNR. Please see below.

Dan



Dan Gibson, M.E.Sc.
Senior Aquatic Biologist
Natural Resource Solutions Inc.
225 Labrador Drive, Unit 1
Waterloo, ON, N2K 4M8
(p) 519.725.2227
(f) 519.725.2575
(c) 519.501.4753
(e) dgibson@nrsl.on.ca
www.nrsl.on.ca

From: Mutter, Tim (MNR) [mailto:tim.mutter@ontario.ca]
Sent: Wednesday, September 22, 2010 1:51 PM
To: dgibson@nrsl.on.ca
Cc: Vascotto, Sarah (MNR); Dosser, Sandra (MNR); Orton, Nick (MNR); Guthrie, Bill (MNR); Bernier, Paul (MNR)
Subject: RE: Ivanhoe River ESA Briefing

Dan,

I understand you are doing work on behalf of Xeneca in relation to the Waterpower Class EA for the Ivanhoe sites. Xeneca has chosen to get a head-start on this work, however, MNR has procedural obligations (Waterpower Site Release) to work through before we fully engage in EA discussions. The EA work will be forthcoming and our biologists and aquatic specialists will certainly want to have a detailed discussion about sturgeon at that time – among other things. I appreciate that you are trying to get as much work done up-front (to expedite the process) and this is why we have tried to provide you a cursory review in the meantime. However, we are not prepared for formal EA discussions just yet and so I would politely ask you to wait until we progress to that stage.

The presence and/or spawning status of sturgeon in the Ivanhoe River will be a component of the Site Information Package (SIP) and EA review. The SIP should be delivered to the proponent within the next month or so. Further discussions and/or possible mitigation arrangements will be determined during the EA review process, when MNR and Xeneca (& consultants) have the opportunity to dialogue more formally.

Thank you. We'll be in touch soon.

Tim Mutter
District Planner
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139
Fax. 705-864-0681
email:tim.mutter@ontario.ca

From: Dan Gibson [mailto:dgibson@nrsl.on.ca]
Sent: Wednesday, September 22, 2010 9:44 AM
To: Mutter, Tim (MNR); steele@nrsl.on.ca
Subject: Re: Ivanhoe River ESA Briefing

Hi Tim,

Thanks for the note. We are/were aware of sturgeon presence d/s at the confluence with the Groundhog. My question therefore is whether MNR has concerns in relation to our site u/s?

Perhaps another phone call is warranted with Charles Hendry joining in?

I'm in Atikoken this week but will be back in the office Friday if you'd like to discuss.

Dan

Sent wirelessly from my BlackBerry device on the Bell network.
Envoyé sans fil par mon terminal mobile BlackBerry sur le réseau de Bell.

From: "Mutter, Tim (MNR)" <tim.mutter@ontario.ca>
Date: Tue, 21 Sep 2010 11:10:29 -0400
To: Dan Gibson<dgibson@nrsi.on.ca>
Subject: FW: Ivanhoe River ESA Briefing

Dan,

Please see attached correspondence and updated info.

The presence of lake sturgeon in the Ivanhoe River has been confirmed based on various recon surveys related to the Montcalm mine project (by Golder). It appears that no spawning sites were documented, however, there is a distinct possibility that they do spawn somewhere in the lower reach (before the confluence with the Groundhog River).

My understanding in talking with Charles Hendry (MNR) is that the particular site referenced below is ideal spawning habitat. It would be a good candidate site for further spring field work. There is also some concern as to the timing/temperatures of the spawning assessment at the prospective locations.

Tim Mutter
District Planner
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139
Fax. 705-864-0681
email:tim.mutter@ontario.ca

From: Orton, Nick (MNR)
Sent: Tuesday, September 21, 2010 10:32 AM
To: Mutter, Tim (MNR)
Subject: FW: Ivanhoe River ESA Briefing

Tim,

Here is the response from Rob Mellow regarding Lake Sturgeon on the Ivanhoe River (see below). There are no spawning areas identified on the Ivanhoe but sturgeon have been captured in the section that connects to the groundhog.

*Nick Orton
Management Biologist
Ministry of Natural Resources
Chapleau District
(705) 864-3165*

From: Hendry, Charles (MNR)
Sent: September 21, 2010 10:20 AM
To: Mellow, Rob
Cc: Orton, Nick (MNR); Vascotto, Sarah (MNR)
Subject: RE: Ivanhoe River ESA Briefing

Rob,

Thanks very much for responding to our request. I stand corrected...no spawning fish have been observed by Golder in the Ivanhoe River, but their presence has been confirmed. I do have the Golder reports here at the office.

Nick, the references are :

Golder Associates Ltd. 2004. Report on 2004 Groundhog River Lake Sturgeon Study, Spring 2004. Reference number: 04-1192-010. Sudbury, Ontario.

Golder Associates Ltd. 2005. Report on 2005 Groundhog River Lake Sturgeon Study, Spring 2005. Reference number: 05-1198-004. Sudbury, Ontario.

Golder Associates Ltd. 2006. Report on 2006 Groundhog River Lake Sturgeon Study, Spring 2006. Reference number: 06-1198-004. Sudbury, Ontario

Rob, I'll see you in Toronto on the 28th.

Regards,
Charles

Charles Hendry, Aquatic Biologist

Ministry of Natural Resources, Northeast Science & Information

5520 HWY 101 East, P.O. Bag 3020, South Porcupine, Ontario, P0N 1H0

Tel: (705) 235-1212; Fax: (705) 235-1251; E-Mail: Charles.Hendry@Ontario.ca

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From: Mellow, Rob [mailto:Rob_Mellow@golder.com]

Sent: Monday, September 20, 2010 3:00 PM

To: Hendry, Charles (MNR)

Cc: Seyler, John

Subject: RE: Ivanhoe River ESA Briefing

Charlie,

In May 2004, 2005 and 2006 we travelled to the Ivanhoe during the Groundhog River study as a reconnaissance strategy to confirm that if we weren't seeing fish show up at Six Mile Rapids, than perhaps they were going up the Ivanhoe instead. In each of those three years we assessed for the presence of fish at the base of the first falls, upstream from the confluence with the Groundhog R., but never identified a specific spawning location or observed actively spawning fish. Catch records based on one to two short duration gill net sets in each year are as listed below, with no fish being captured in 2006.

I believe you have copies of the Groundhog River reports on file, received from Montcalm Mine or our office, for each of the years mentioned above.

Trust this information is sufficient for your needs.

Rob

Year	PIT Tag	Fork (mm)	Weight (kg)	Sex	Age (yr)
2004	4558730378	1025	9.0	F	24
2004	45576A7411	858	5.0	M	23
2004	45683A1E0E	1034	23.0	M	43
2005	455A0B4436	1020	10.0	U	36
2005	44637D5656	925	7.0	M	31
2005	4548711A22	830	-	M	24
2005	4549113356	1035	10.0	U	42

Rob Mellow (H.B.Sc.) | Aquatic Biologist | Golder Associates Ltd.

1010 Lorne Street, Sudbury, Ontario, Canada P3C 4R9

T: +1 (705) 524 6861 | D: +1 (705) 524-6861 | F: +1 (705) 524 1984 | C: +1 705 562-6416 | E: Rob_Mellow@golder.com
| www.golder.com

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Please consider the environment before printing this email.

From: Hendry, Charles (MNR) [<mailto:charles.hendry@ontario.ca>]

Sent: September 20, 2010 10:57 AM

To: Orton, Nick (MNR)

Cc: Mellow, Rob

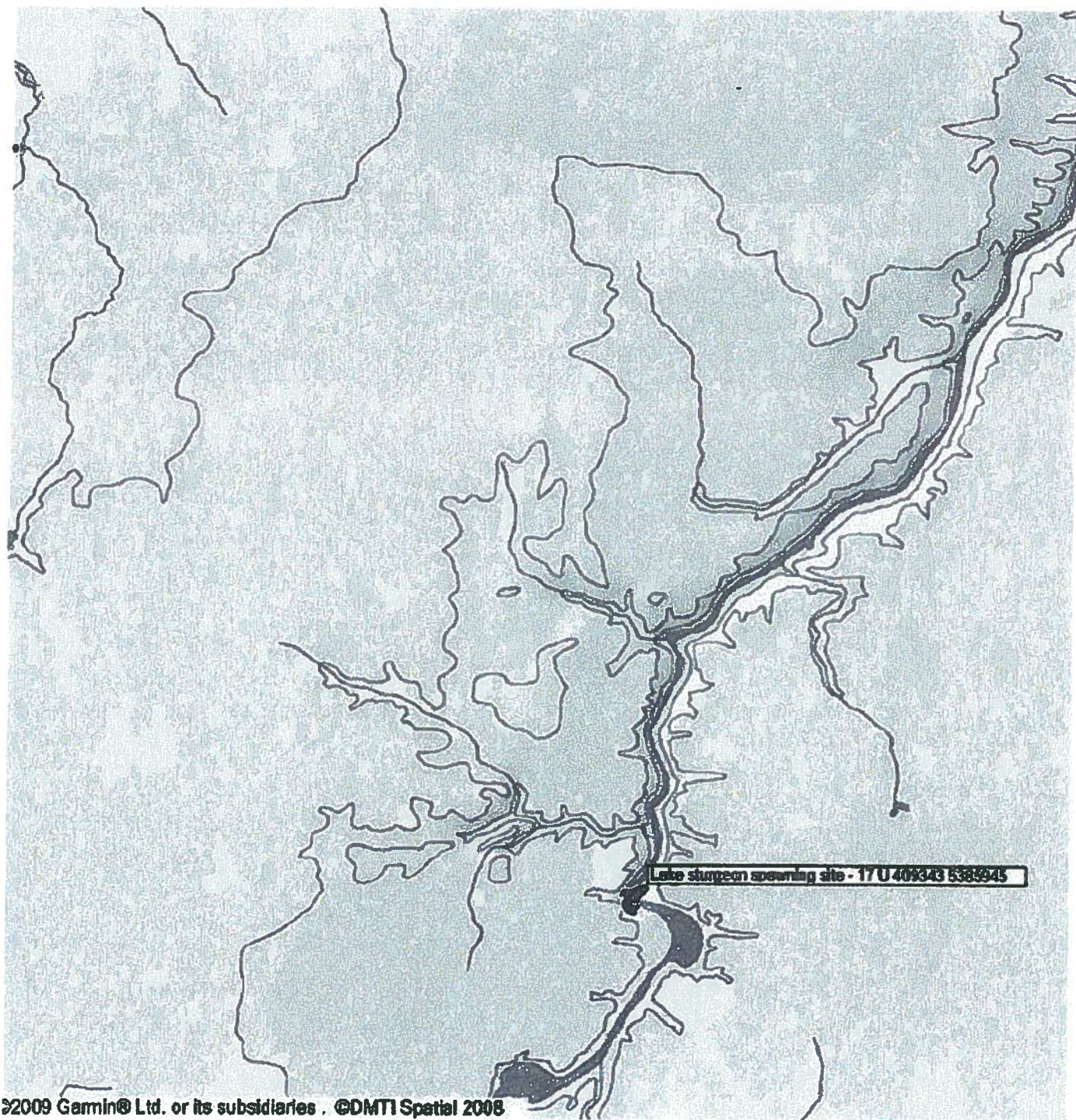
Subject: RE: Ivanhoe River ESA Briefing

Yes, we suspected spawning at the last falls on the lower Ivanhoe before it empties into the Groundhog. Rob Mellow at Golder confirmed spawning at this site a few years ago...as part of their sturgeon monitoring for Xstrata's Montcalm project.

By way of this e-mail, I will ask Rob to confirm the location, date and numbers of fish and if the siting has been referenced in a Golder document.

Thanks Rob.

Below is my interpretation of the site location.



Charles Hendry, Aquatic Biologist

Ministry of Natural Resources, Northeast Science & Information

5520 HWY 101 East, P.O. Bag 3020, South Porcupine, Ontario, P0N 1H0

Tel: (705) 235-1212; Fax: (705) 235-1251; E-Mail: Charles.Hendry@Ontario.ca

Science & Information Branch Mission:

"We collaborate with our clients by providing relevant expertise together with science"

and information products for natural resource management and reporting."

From: Orton, Nick (MNR)
Sent: Monday, September 20, 2010 9:30 AM
To: Mutter, Tim (MNR)
Cc: Hendry, Charles (MNR)
Subject: RE: Ivanhoe River ESA Briefing

Tim,

I checked the data again and there are no known sturgeon spawning sites on the Ivanhoe River. The only two sturgeon spawning sites that show up are on the Groundhog River and the other one is on Scorch Creek.

Charles, are you aware of a sturgeon spawning site on the Ivanhoe River? If so, can you please contact me so I can get some information from you in order to put it into NRVIS.

Thanks

*Nick Orton
Management Biologist
Ministry of Natural Resources
Chapleau District
(705) 864-3165*

From: Mutter, Tim (MNR)
Sent: September 20, 2010 8:54 AM
To: Orton, Nick (MNR)
Subject: RE: Ivanhoe River ESA Briefing

Thx Nick. Can you do me a favour and check our data again, and possibly talk to Charles Hendry, because I'm pretty sure that there is a confirmed sturgeon spawning site on the Ivanhoe just before it joins the Groundhog. Charles found it – I think.

Thx again.

Tim Mutter
District Planner
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139
Fax. 705-864-0681
email:tim.mutter@ontario.ca

From: Orton, Nick (MNR)
Sent: Friday, September 17, 2010 1:41 PM
To: Mutter, Tim (MNR)
Subject: RE: Ivanhoe River ESA Briefing

Tim,

Regarding the ESA issues, I do not have any major issues to flag. The Lake Sturgeon spawning assessment at the chutes was carried out much too late in the season as the water temperature was 20 degrees Celsius when the survey was performed. I am not aware of any recent reports of sturgeon in this area and there is nothing in NRVIS to indicate sturgeon spawning in this area so this isn't a major issue although it would have been nice if the survey was carried out during optimal conditions. The closest known occurrence of sturgeon identified in NRVIS is within the Groundhog River.

Also, the report makes references to "attached maps for corresponding site locations and project study" but they were not included. These maps should accompany this document as well.

I'm interested in seeing the full results of the fisheries collection report so can you please send it to me when you receive it.

Thanks

*Nick Orton
Management Biologist
Ministry of Natural Resources
Chapleau District
(705) 864-3165*

From: Mutter, Tim (MNR)
Sent: September 16, 2010 4:09 PM
To: Orton, Nick (MNR)
Subject: FW: Ivanhoe River ESA Briefing

Nick,

Could you please review this and let me know if you flag anything. Thanks a lot.

P.S – this is part of Xeneca's EA work on the Ivanhoe River waterpower sites. We gave them SC permits this spring for field collection. They are just getting a head start on ESA permitting stuff.

Tim Mutter
District Planner
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139
Fax. 705-864-0681
email:tim.mutter@ontario.ca

From: Dan Gibson [mailto:dgibson@nrsl.on.ca]
Sent: Thursday, September 16, 2010 9:02 AM
To: Mutter, Tim (MNR)
Cc: 'Ed Laratta'; 'Dave Green'
Subject: Ivanhoe River ESA Briefing

Tim,

As discussed on the phone this morning, please find attached an ESA briefing outlining NRSl's 2010 field work as well as a background review of known and potential ESA species in relation to Xeneca power projects proposed on the Ivanhoe River. I trust this briefing will be sufficient to ease ESA concerns on the Ivanhoe River projects. Please confirm your receipt of this document and your agreement/disagreement with NRSl's assessment.

Please note that a full Fisheries Collection Report (FCR) detailing NRSl's capture records for 2010 will follow closer to the end of the year.

Best regards.....,



Dan Gibson, M.E.Sc.
Senior Aquatic Biologist
Natural Resource Solutions Inc.
225 Labrador Drive, Unit 1
Waterloo, ON, N2K 4M8
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(f) 519.725.2575
(c) 519.501.4753
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www.nrsl.on.ca

No virus found in this incoming message.

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Version: 9.0.856 / Virus Database: 271.1.1/3155 - Release Date: 09/23/10 14:34:00

Muriel Kim

From: Tami Sugarman
Sent: October 26, 2010 4:20 PM
To: Kai Markvorsen
Subject: FW: Ivanhoe SIP - EMAIL 1 OF 2
Attachments: SIP - chutes.rtf; Site Description Package The Chutes 6Oct2010.pdf; Site Description Package Overview Final 7Oct2010.pdf

Importance: High

Tami Sugarman - OEL-HydroSys Carp - (613) 839-1453 x229

From: Ed Laratta [<mailto:elaratta@xeneca.com>]
Sent: October 22, 2010 1:33 PM
To: Dan Gibson; Rob Steele; Tami Sugarman
Subject: FW: Ivanhoe SIP - EMAIL 1 OF 2
Importance: High

FYI on Ivanhoe ...

From: Patrick Gillette
Sent: October 22, 2010 1:38 AM
To: Judy Leavitt; Ed Laratta; Don Chubbuck; Mike Vance
Subject: FW: Ivanhoe SIP - EMAIL 1 OF 2
Importance: High

Judy please file and gentlemen take a look.

From: Mutter, Tim (MNR) [<mailto:tim.mutter@ontario.ca>]
Sent: Tuesday, October 19, 2010 2:03 PM
To: Patrick Gillette
Cc: Bernier, Paul (MNR); Guthrie, Bill (MNR)
Subject: Ivanhoe SIP - EMAIL 1 OF 2
Importance: High

Patrick,

Attached are the SIPs for the Chutes and Third Falls sites. These SIPs are basically complete, but additional information may be added as we move forward if anything was inadvertently overlooked.

Xeneca will receive both hard and electronic copies. A summary of the package contents is as follows:

- Hard copy (to be sent by Purolator today)
 - 3 wall maps; one of the Chutes site, one of the Third Falls site and one illustrating an overview of the Ivanhoe River and the location of the Ivanhoe Dam in relation to the candidate sites;
 - Copies of the Site Information Package document for both the Chutes and Third Falls sites;

- 2 DVDs; the first containing photographs and aerial footage of a flight of the Ivanhoe River taken in early November 2009 AND the second containing the "supplemental information folder" referred to in the Waterpower Site Information Packages for both the Chutes and Third Falls sites.
- Electronic (info attached)
 - .rtf copies of the Waterpower Site Information Packages for both the Chutes and Third Falls sites;
 - .pdf versions of the 3 aforementioned wall maps

Please note that this email contains the "electronic" components mentioned above. The hard copy information will be sent out via Purolator today. This is email 1 of 2. The next email (2 of 2) will contain the remaining electronic information for Third Falls (SIP document + map).

We trust that this meets your expectations and we look forward to future detailed discussions with Xeneca. Please let me know if you have any questions or if you have any further immediate information needs.

Thanks,

Tim Mutter
District Planner
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139
Fax. 705-864-0681
email: tim.mutter@ontario.ca

Notes from meeting with Chapleau MNR January 26, 2011

Attending:

For MNR:

Paul Bernier (Chapleau District Manager)

Jeff Sander (Fire Specialist)

Sue Lindquist (Aboriginal/Community Liaison)

Kent Stainton

Bill Guthrie (Area Supervisor)

Tim Mutters (District Planner)

Pat Cantin (Regional Engineering)

Justin Standeven

For Xeneca:

Patrick Gillette (Xeneca President)

Mark Holmes, VP Corporate Affairs

Arnold Chan, VP Legal Affairs

Dean Assinewe, Aboriginal Relations

Meeting commenced at 9 a.m.:

MNR notes that Mattagami Water Management Plan will need to be amended for Ivanhoe R. Projects and incorporated into Xeneca's Waterpower Class EA.

MNR was reminded of time constraints around the projects that are proceeding under FIT Contracts issued by the OPA. Work needed to get through approvals, particularly the Survey General's Office, needs to occur concurrently with EA and other process to ensure timelines are met.

Questions were raised about proceeding with the EA with only one season of biological data available and that data may be somewhat skewed due to historically low water levels.

MNR was assured that Xeneca would provide additional studies to fill in identified information gaps and that Xeneca understands that it may need to adapt plant design and operation plans subsequently should studies reveal information outside of baseline assumptions.

MNR suggested "intimate" consultation between Xeneca, its Environmental Consultants and MNR.

It was noted that in other districts a "technical committee" involving all appropriate government agencies (i.e. MNR/MOE, DFO TC etc.) has been struck to work through EA information requirements and to ensure a comfort level in moving forward with the projects.

ACTION:

It was strongly suggested that Ed Laratta consult with biological consultants and MNR regarding future data collection in order that baseline information is available.

Chapleau District has also asked for data results from studies conducted over the past year by Xeneca consultants.

It was noted that First Nations may have some discomfort in moving forward with projects if ecological impacts are not clearly understood.

Xeneca observed that First Nations have been contacted early in the development process and information is being provided up front as soon as it is available and this will continue to occur.

Further, Xeneca has engaged in work to determine operation plans for the projects which, when complete, will answer many of the questions on ecological impacts. It was also pointed out that the projects will likely be run-of-the-river, and, as such, will have a much lower environmental footprint.

Xeneca was informed that MNR has reviewed the project sites and, under provisions of the Mining Act, has removed from claim staking lands around the project and proposed distribution line routes. MNR observed that some "nuisance claims" may be occurring around projects.

ACTION:

Xeneca needs to review the land withdrawn from staking which was based on the assumption that 500 metres to either side of the proposed project area stretching (5 km?) upstream and downstream. Xeneca should work with the mining recorder to assure appropriate lands are removed from staking.

With respect to the Site Information Package (SIP) provided by Chapleau MNR to Xeneca, it was noted some interest in the project may be forthcoming from:

Mitchipicoten FN,

Moose Cree FN

Chapleau Metis

With respect to site release and the MNR requisite 180 FN consultation period, MNR confirmed that the process was logged as starting on January 26, 2011.

Attention was turned to stakeholder outreach and an overview of activities to date was provided.

The overview included:

Agency coordination meetings

Public information meetings

Newspaper advertising

Website access and promotion

Rigorous logging of stakeholder information, questions and responses

It was observed that project information for the Kapuskasing River proposals was advertised in the Chapleau Times but Ivanhoe projects were not. Subsequently, it was explained that the Ivanhoe Projects were advertised in the Timmins media.

Action:

Xeneca will run the Ivanhoe projects Notice of Commencement advertisement in the Chapleau Post.

Discussion turned to the MNR operated control dam at Ivanhoe Lake and it was requested that MNR advise Xeneca of releases of water in order that Xeneca could use the additional volume to generate power.

It was indicated that MNR has a water level monitoring station at their water control facility and that it could be used to coordinate with Xeneca during periods when water is released.

MNR reiterated that the Mattagami Water Management Plan (WMP) will have to be modified and Xeneca will have to comply with the Plan.

Action:

(a) With respect to the Mattagami WMP and required amendments, Xeneca will need to file public notices at the earliest possible juncture.

(b) A copy of the Mattagami WMP should be obtain by Xeneca

(c) Xeneca should coordinate with the WMP Advisory Committee members to arrange a meeting.

MNR informed Xeneca that the downstream conservation reserve cannot be affected by the project.

It was also advised that new technical parameters are being proposed under LRIA but until new guidelines are formally put into place, Xeneca should follow the 1977 guidelines.

With respect to plant design and operation, MNR indicated it will be looking for a flood flow management plan.

It was also noted that the project lies within the clay belt region and that rivers are subject to erosion and controls or other mitigative measures need to be put into place.

Aboriginal engagement:

MNR noted that, in consultation with First Nation Communities it was suggested that the proponent work with the residents of Foleyet who have extensive local knowledge of the river.

It was also noted that the Moose Cree want to be informed about the project.

Further, MNR noted that members of Brunswick House First Nation would like a fly over of the proposed development sites.

Xeneca will be required to record all of its efforts toward consultation and the establishment of agreements. Regular updates to MNR on FN consultation is also expected

Action:

A formal consultation plan for engaging with Aboriginal and non aboriginal stakeholders needs to be provided to MNR.

The final topic of discussion was Fire Management and it was noted that new protocols are in place i.e. land clearing, managing debris, fire suppression requirements when operating heavy equipment.

Further it was noted there are compliance regulations in place that:

- may require operational modifications during periods of increased fire hazard.
- clearing of forest areas needs to be undertaken by experienced operators
- a fire prevention plan may need to be prepared to include the number of personnel on site/communications etc.

The Firesmart Manual was also referenced with regard to protecting structures such as powerhouses, transmission lines and equipment

Action:

Fire Management Specialist Jeff Sanders will forward to Xeneca the fire safety/Management protocols with recent revisions.

Next steps as outlined at the meeting included:

1. Engagement with First Nations
2. MNR to liaise with Xeneca staff to work out timelines, exchange of information and compliance
3. An agency Co-ordination meeting
4. Preparation of communications plans for aboriginal and non aboriginal stakeholders

The meeting adjourned at 2:30 p.m.

Muriel Kim

From: Mark Holmes [mholmes@xeneca.com]
Sent: February 1, 2011 12:17 PM
To: Patrick Gillette; Ed Laratta; Tami Sugarman; Philippa McPhee; Arnold Chan; Dean Assinewe; Don Chubbuck
Cc: Vanesa Enskaitis; Stephanie Hodsoll
Subject: notes from MNR screening Ivanhoe
Attachments: Notes from meeting with Chapleau MNR January 26.docx

Please find attached my notes from Xeneca's January 26 meeting with Chapleau District MNR regarding our two projects on the Ivanhoe River.

Overall a very productive meeting and initial indications that this will be a good District office with which to work.

The notes provide an overview of issues raised and responses as well as identified action items.

Please review thoroughly and provide any feedback required along with your respective follow up on action items related to your departments.

Thanks and best regards,

Mark Holmes
Vice President
Corporate Affairs
Xeneca Power Development

5160 Yonge St.
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Muriel Kim

From: Tami Sugarman
Sent: February 16, 2011 6:04 PM
To: Pilar DePedro
Subject: FW: Xeneca Power Development Inc. proposed Third Falls waterpower project on the Ivanhoe River - Project Description Document Notice

Tami Sugarman - OEL-HydroSys Carp - (613) 839-1453 x229

From: Tami Sugarman
Sent: February 16, 2011 6:04 PM
To: 'Mutter, Tim (MNR)'
Cc: Guthrie, Bill (MNR); Vascotto, Kris (MNR); Stainton, Kent (MNR)
Subject: RE: Xeneca Power Development Inc. proposed Third Falls waterpower project on the Ivanhoe River - Project Description Document Notice

Hello Tim

Thank you for the conversation this morning. You mentioned that you had not yet received the Final version of the Third Falls PD. Is this because you have had difficulty with the download off our ftp site (instruction are provided below again)? Please let me know if this is the case. I would also appreciate it if you could inform me when the hard copy arrives.

As discussed we will pass on additional information as it becomes available from Xeneca (i.e. updated and more detailed transmission line route and access road route mapping) to assist MNR staff with understanding the project proposal. I believe NRSI released their DRAFT Existing Conditions report to MNR today.

I will send out an email shortly suggesting that the EA coordination meeting with the agencies occur somewhere in mid-March in order to provide more time for review of information provided. I also look forward to working closely together within the next month and onwards.

Best regards,
Tami

You may access our FTP site by completing the following instructions:

Site: <ftp://clientftp.wesa.ca>
Username: XENECA
Password: WESA.2010

An word document guide was attached the first email we sent you on Feb 02-11 to assist you with the download process. You will need to activate passive mode in your Internet Explorer browser to be able to access the FTP site behind our corporate firewall.

From: Mutter, Tim (MNR) [mailto:tim.mutter@ontario.ca]
Sent: February 16, 2011 9:40 AM
To: Tami Sugarman
Cc: Guthrie, Bill (MNR); Vascotto, Kris (MNR); Stainton, Kent (MNR)
Subject: RE: Xeneca Power Development Inc. proposed Third Falls waterpower project on the Ivanhoe River - Project Description Document Notice

Tami,

I left you a voice mail. I have some concern with your anticipated timelines for the all agency EA scoping meeting. As you know, the Project Descriptions (PD) for the Ivanhoe River sites (Chutes and Third Falls) are submitted such that we can gain an understanding of the project and scope out the required permits & approvals, timelines, EA requirements, and associated processes. We haven't even begun a review yet, as some items have been incomplete. For example, we had some difficulty getting proper scale maps to review the proposed transmission corridor. We are currently trying to get better resolution data from NRSI in order to do a comprehensive review. We will need an appropriate amount of time to review this once we get decent data. The two corridors are several tens of kilometres long. A careful review is important.

Also, as you know, the Third Falls final draft PD, complete with associated appendices, has not been delivered to our office yet. As such, we have not started the review of that PD. There is a possibility that we may need to have some dialogue with you about the PDs in general – and a possibility that we may need more information or clarification on some matters before we can fully scope the project.

With respect to baseline data, we have been clear with Xeneca that our biologists need to review the results of last spring's field data collection that was conducted by NRSI and have a clear understanding about what was done, how it was carried out, and what was found. Then, our biologist will make a determination if any additional baseline data is required/ recommended. Additional field work may be required this spring if MNR feels that the baseline aquatic conditions have not been properly characterized. Keep in mind, we are dealing with a river that has sturgeon, likely brook trout, and many other sensitive species. Due diligence in understanding the river ecosystem and potential impacts from hydro development is imperative. Our biologist only received the initial reports from NRSI last week on Thurs. We need an appropriate amount of time to review this data and make sound assessments about the possible need for further field work.

That said, we need a reasonable amount of time to get the pertinent information and complete our initial review. Can I suggest that we work closely together as we move forward and chose a date in the near future that is more workable? I'm not sure how the other agencies feel, but I would assume that their position is similar.

Please give me a call on Friday and we can discuss. Thank you.

Tim Mutter
District Planner &
Conservation Reserve Mgr.
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139
Fax. 705-864-0681
email:tim.mutter@ontario.ca

From: Tami Sugarman [mailto:tsugarman@oel-hydrosys.ca]
Sent: Tuesday, February 15, 2011 4:32 PM
To: Mutter, Tim (MNR)
Cc: Pilar DePedro; elaratta@xeneca.com
Subject: RE: Xeneca Power Development Inc. proposed Third Falls waterpower project on the Ivanhoe River - Project Description Document Notice

Tim

Since everyone has such busy schedules, in order to set up the EA coordination meeting to discuss both sites on the Ivanhoe River, I normally try to settle a date that would work first for the MNR, MOE, CEAA and DFO before I send out a general invite to all government parties. I am thinking that this meeting could be held somewhere in the weeks of Feb 28th or March 7th. We usually get 15 or more people out in person to these meetings and another group calling in by teleconference. Can you advise us of a local meeting venue that may handle these requirements? We will send out an email to the above named parties shortly to start this ball rolling.

Best regards,

Tami



Tami Sugarman, B.Sc., P.Geo. — Principal, Senior Environmental Approvals Advisor

OEL-HydroSys Inc. — 3108 Carp Road - P.O. Box 430, Carp, Ontario, Canada K0A 1L0

(T) (613) 839-1453 x229 (C) (613) 894-3509 (F) (613) 839-5376

tsugarman@oel-hydrosys.ca — www.oel-hydrosys.ca

OEL-HydroSys, WESA Envir-Eau, WESA, WESA Technologies, members of WESA Group Inc.

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From: Mutter, Tim (MNR) [mailto:tim.mutter@ontario.ca]

Sent: February 15, 2011 4:18 PM

To: Pilar DePedro; elaratta@xeneca.com

Cc: Philippa McPhee; Tami Sugarman

Subject: RE: Xeneca Power Development Inc. proposed Third Falls waterpower project on the Ivanhoe River - Project Description Document Notice

Thanks for your prompt reply. I will await the hard copy version, which should be in shortly if it was sent by regular post.

Tami: I received your voice message. Thank you!

We'll be in touch soon with our comments/questions/concerns regarding the PDs.

Tim Mutter
District Planner &
Conservation Reserve Mgr.
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139

Fax. 705-864-0681

email:tim.mutter@ontario.ca

From: Pilar DePedro [mailto:pdpedro@oel-hydrosys.ca]

Sent: Tuesday, February 15, 2011 3:45 PM

To: Mutter, Tim (MNR); elaratta@xeneca.com

Cc: Philippa McPhee; Tami Sugarman

Subject: Xeneca Power Development Inc. proposed Third Falls waterpower project on the Ivanhoe River - Project Description Document Notice
Importance: High

Good afternoon Tim,

Here is a copy of the e-mail with the details for FTP access to the Third Falls Project Description sent February 2nd. A hard copy was sent to you on February 8th to the address listed below;

190 Cherry St.
Chapleau, ON
P0M 1K0

Regards,

Pilar



Pilar DePedro, — Environmental Scientist

OEL-HydroSys Inc. — 3108 Carp Rd., Carp, Ontario, K0A 1L0
(T) (613) 839-3053 x225 (F) (613) 839-5376
pdpedro@oel-hydrosys.ca — www.oel-hydrosys.ca

OEL-HydroSys, WESA Envir-Eau, WESA, WESA Technologies, membres de/members of WESA Group Inc.

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Please consider the environment before printing this e-mail

From: Environmental Assessment Information

Sent: February-02-11 3:16 PM

To: 'Alan Rowlinson'; 'Brett Smith'; 'Caitlin Scott'; 'Dave Bell'; 'David Pickles'; 'Ellen Cramm'; 'Gerry Webber'; 'Haya Finan'; 'Helen Kwan'; 'Janet Ronne'; 'Jennifer Lillie Paetz'; 'Katherine Kirzati'; 'Lianne Kentish'; 'Mei Ling Chen'; 'Mohammad Sajjad Khan'; 'Narren Santos'; 'Paul Marleau'; 'Rob Dobos'; 'Sheila Derasp'; 'Simon Spooner'; 'Tim Mutter'

Cc: Ed Laratta; Vanesa Enskaitis; Philippa McPhee; pnorris@owa.ca; Rob Steele; Tami Sugarman

Subject: Xeneca Power Development Inc. proposed Third Falls waterpower project on the Ivanhoe River - Project Description Document Notice

Importance: High

Good morning:

On behalf of Xeneca Power Corporation Inc. we are pleased to provide you with the attached letter of introduction and directions to accessing and downloading the project description document for the proposed Xeneca Power Corporation Inc. waterpower development at Third Falls Project site located on the Ivanhoe River in northeastern Ontario. Xeneca has been awarded a Feed-in Tariff (FIT) contract for this site by the Ontario Power Authority (OPA).

You are included on our email list as you have been identified as the one-window contact for your organization and are listed as such on the Contact List for the project. We ask that you distribute this information to colleagues within your organization that should be involved in the planning process. If the main contact for your organization is someone other than you please inform us at EAinfo@oel-hydrosys.ca as soon as possible so that our staff can update the contact list accordingly.

We have elected to distribute this document in electronic format for environmental reasons. You may access our FTP site by completing the following instructions:

Site: <ftp://clientftp.wesa.ca>
Username: XENECA
Password: WESA.2010

An attached word document guide will assist you with the download process. You will need to activate passive mode in your Internet Explorer browser to be able to access the FTP site behind our corporate firewall.

Aboriginal communities located nearby will also be receiving this notice directly from Xeneca's First Nation and Aboriginal Relations Liaison, Mr. Dean Assinewe.

A hard paper copy and/or CD Rom copy of the project description document will be issued shortly to federal agencies and Aboriginal communities.

Other Parties: If you require a paper and/or CD Rom copy in addition to this electronic copy please notify us at EAinfo@oel-hydrosys.ca otherwise we will assume that this electronic version is adequate.

We are pursuing an Ontario Class Environmental Assessment for Waterpower Projects planning process for this site. A federal screening may also be triggered at the site. The proposed Third Falls GS development site is located downstream from another proposed waterpower project Xeneca's The Chute Hydroelectric Generating Station. The Ivanhoe River development sites are located approximately 30 km apart and are interpreted to be independent of each other based on hydrology and biology. We have therefore decided to pursue a separate Class Environmental Assessment for Waterpower Projects planning process for each site.

The project description is intended to provide an overview of the project components, general information on the project setting and relevant background information on the project. This Project Description is also designed to assist the proponent in ensuring that all aspects of the project are accounted for in enough detail to allow the public, Aboriginal communities and government agencies to provide meaningful comment throughout the Class EA process. The information will allow you to identify your environmental assessment and regulatory requirements associated with the project. It will also allow a federal authority to determine if there is potential for the *Canadian Environmental Assessment Act (CEAA)* to be triggered by the project proposal and whether the agency will be a Responsible Authority (RA) under *CEA Act* or whether it is able to provide technical expertise as an expert advisor (FA).

It is our intention to schedule a proponent-agency EA coordination meeting as soon as possible. We hope that this project description document will assist you in preparing for this meeting, the purpose of which is to discuss the following items in the context of the project's proposed schedule:

- applicable policies and procedures administered by each agency (list of statutes and regulations) and list of required approvals for the project;
- a comprehensive list of values and issues of concern/benefit identified with the site and the project (natural, socio-cultural, economic);
- data and information collection procedures; and,

- a consultation and engagement plan.

We trust this submission is adequate for these purposes. Please do not hesitate to contact us with any questions or clarifications.

Respectfully submitted on behalf of Xeneca Power Corporation Inc.,

Tami Sugarman and Philippa McPhee, EA Project Managers
OEL-HydroSys Inc.

Kai Markvorsen

From: Ed Laratta [elaratta@xeneca.com]
Sent: May 12, 2011 2:37 PM
To: Tami Sugarman
Subject: FW: Distribution Lines & Access routes for the Kap & Ivanhoe projects

TAMI,
FYI-KBM is talking with all Districts concerning the routing for lines/roads.
Ed

Edmond Laratta | Manager, Environmental Affairs | Xeneca Power Development Inc. 5160 Yonge Street, Suite 520, Toronto, ON, M2N 6L9
Tel: 416 590 9362 Ext 106 Cell: 416 856 3253 | Fax: 416 590 9955 | Email: elaratta@xeneca.com

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

From: Stephane Audet [mailto:stephane@kbm.on.ca]
Sent: May 12, 2011 1:50 PM
To: 'Mutter, Tim (MNR)'; 'Vascotto, Kris (MNR)'; 'Barbour, David (MNR)'
Cc: Ed Laratta; 'Dave Thomson KBM'; 'Guthrie, Bill (MNR)'
Subject: RE: Distribution Lines & Access routes for the Kap & Ivanhoe projects

Hey Tim,

I've put the updated line maps up on our FTP site. The updated maps specific to the Ivanhoe projects are in the folder called "For_Field_Review". An updated index map can be found in the folder "Map Index". I've also included all of the line maps for the 'March 3rd' report. A summary spreadsheet for each line is also available for download on the FTP site. Please feel free to give me a call should you have any questions.

Server: lucaris1.lakeheadu.ca
User: ftp_xeneca_pic
Pwd: ftp_xeneca_pic!@#
Windows Explorer Address: ftp://ftp_xeneca_pic@lucaris1.lakeheadu.ca

Stephane Audet, RPF
Consultant, Operations Coordinator
KBM Resources Group
349 Mooney Ave.
Thunder Bay, ON P7B 5L5

OFFICE 807-345-5445 (229)

CELL 807-624-6893

FAX 807-345-5858

EMAIL <mailto:stephane@kbm.on.ca> stephane@kbm.on.ca

WEB <http://www.kbm.on.ca> www.kbm.on.ca

From: Mutter, Tim (MNR) [mailto:tim.mutter@ontario.ca]
Sent: Wednesday, May 11, 2011 2:27 PM
To: Stephane Audet; Vascotto, Kris (MNR); Barbour, David (MNR)
Cc: Ed Laratta; Dave Thomson KBM; Guthrie, Bill (MNR)
Subject: RE: Distribution Lines & Access routes for the Kap & Ivanhoe projects

No - didn't receive it. Can you try again or piece it out?

I'll give you a call tomorrow to sort out.

Tim Mutter
District Planner &
Conservation Reserve Mgr.
Chapleau District
Ministry of Natural Resources

190 Cherry St.

Chapleau, Ont. P0M 1K0

Tel. 705-864-3139

Fax. 705-864-0681

email:tim.mutter@ontario.ca

From: Stephane Audet [mailto:stephane@kbm.on.ca]
Sent: Wednesday, May 11, 2011 1:00 PM
To: Mutter, Tim (MNR); Vascotto, Kris (MNR); Barbour, David (MNR)
Cc: 'Ed Laratta'; 'Dave Thomson KBM'; Guthrie, Bill (MNR)
Subject: RE: Distribution Lines & Access routes for the Kap & Ivanhoe projects

Can you guys let me know if my last email made it through? I got a delivery failure notice which was likely due to the size of the file I sent.

Stephane Audet, RPF

Consultant, Operations Coordinator

KBM Resources Group

349 Mooney Ave.

Thunder Bay, ON P7B 5L5

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EMAIL <mailto:stephane@kbm.on.ca> stephane@kbm.on.ca

WEB <http://www.kbm.on.ca> www.kbm.on.ca

From: Stephane Audet [mailto:stephane@kbm.on.ca]
Sent: Wednesday, May 11, 2011 9:29 AM
To: 'Mutter, Tim (MNR)'; 'Vascotto, Kris (MNR)'; 'Barbour, David (MNR)'
Cc: 'Ed Laratta'; 'Dave Thomson KBM'; 'Guthrie, Bill (MNR)'

Subject: RE: Distribution Lines & Access routes for the Kap & Ivanhoe projects

Tim:

Thanks for getting back to me. Changes to the proposed lines have been made subsequent to the 'March 3rd' report. I've attached an overview map of the updated lines as well as a summary spreadsheet for each line. I will try and upload the individual tiles shortly. Feel free to give me a call should you have any questions.

Regards,

Stephane Audet, RPF

Consultant, Operations Coordinator

KBM Resources Group

349 Mooney Ave.

Thunder Bay, ON P7B 5L5

OFFICE 807-345-5445 (229)

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EMAIL <<mailto:stephane@kbm.on.ca>> stephane@kbm.on.ca

WEB <<http://www.kbm.on.ca>> www.kbm.on.ca

From: Mutter, Tim (MNR) [<mailto:tim.mutter@ontario.ca>]
Sent: Wednesday, May 11, 2011 8:31 AM
To: Stephane Audet; Vascotto, Kris (MNR); Barbour, David (MNR)
Cc: Ed Laratta; Dave Thomson KBM; Guthrie, Bill (MNR)
Subject: RE: Distribution Lines & Access routes for the Kap & Ivanhoe projects

Thanks Stephane. We will have a look through the report and conduct a values check for the most recent proposed transmission route. Does the link below for Ivanhoe and Kapuskasing show the most recent routing?

Tim Mutter
District Planner &
Conservation Reserve Mgr.
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139

Fax. 705-864-0681

email:tim.mutter@ontario.ca

From: Stephane Audet [mailto:stephane@kbm.on.ca]
Sent: Friday, May 06, 2011 12:12 PM
To: Vascotto, Kris (MNR); Mutter, Tim (MNR); Barbour, David (MNR)
Cc: 'Ed Laratta'; 'Dave Thomson KBM'
Subject: Distribution Lines & Access routes for the Kap & Ivanhoe projects

Hello Kris, Tim & David,

Subsequent to the Xeneca meeting held last week I would like to follow up with you guys regarding planned distribution lines & access routes for the Kapuskasing & Ivanhoe river projects. I've attached a digital copy of the 'March 3rd' line report as I was unsure if these have made it your way yet.

Associated maps can be downloaded from the links below. Please note that many of the transmission lines described in the March 3rd report have undergone subsequent refinements. These will be summarized in the next version of the lines report, however I would be more than willing to discuss these changes and provide some preliminary mapping information. Furthermore a ground truthing exercise is planned in the coming weeks.

Would you guys be able to provide me with some feedback/advice regarding the preliminary lines proposed in the March 3rd report? Would you also be able to comment on any impacted values that may have been missed in the preliminary analysis?

In the interim please feel free to give me a call to discuss any questions or concerns,

Regards,

Stephane Audet, RPF

Consultant, Operations Coordinator

KBM Resources Group

349 Mooney Ave.

Thunder Bay, ON P7B 5L5

OFFICE 807-345-5445 (229)

CELL 807-624-6893

FAX 807-345-5858

EMAIL <mailto:stephane@kbm.on.ca> stephane@kbm.on.ca

WEB <http://www.kbm.on.ca> www.kbm.on.ca

Xeneca Map (pdf format) Download Links:

Kapuskasing River Sites:

Outlet Lake, Lapinigam Rapids, Middle Twp Buchen, North Boundary

http://www.kbm.on.ca/xeneca/Set_A_Kapuskasing.pdf

Ivanhoe River Sites:

The Chute, Third Falls

http://www.kbm.on.ca/xeneca/Set_B_Ivanhoe.pdf

Wanatango Falls Site:

Frederick House

http://www.kbm.on.ca/xeneca/Set_C_FrederickHouse.pdf

Blanche River and Larder River Sites:

Blanche, Larder and Raven

http://www.kbm.on.ca/xeneca/Set_D_E_Larder_Blanche.pdf

Serpent River Sites:

McCarthy Chutes, Four Slide Falls

http://www.kbm.on.ca/xeneca/Set_F_Serpent.pdf

Vermillion River and Wanapitei River Sites:

At Soo Crossing, Cascade Falls, McPherson Fall, Allen & Struthers

http://www.kbm.on.ca/xeneca/Set_G_H_Vermillion_Wanapiti.pdf

Petawawa River:

Half Mile, Big Eddy

http://www.kbm.on.ca/xeneca/Set_I_Petawawa.pdf

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Version: 9.0.900 / Virus Database: 271.1.1/3630 - Release Date: 05/11/11 02:34:00

Ministry of Natural Resources

Regional Operations Division
190 Cherry Street
Chapleau, ON P0M 1K0

Tel.: 705-864-1710
Fax: 705-864-0881

Ministère des Richesses naturelles

Unité des opérations régionales
190, rue Cherry
Chapleau, ON P0M 1K0

Tél : 705-864-1710
Télééc.: 705-864-0681



May 17, 2011

RECEIVED
MAY 20 2011

Xeneca Power Development Inc.
5160 Yonge Street, Suite 520
Toronto, ON
M2N 6L9
Attention: Patrick Gillette – President and CEO

SUBJECT: Update regarding proposed Non-Competitive Site Release Application for Waterpower Development –
a) Ivanhoe River, The Chutes, in Oates Township, and
b) Ivanhoe River, Third Falls, in Belford Township

Dear Patrick Gillette,

Thank you for participating by telephone in the Site Information Meeting regarding site release for the two proposed Ivanhoe River water power sites on Jan 27, 2011. On that date, Mark Holmes and Arnold Chan submitted the Waterpower Applicant Declaration Form for the Chutes and the Third Falls sites on the Ivanhoe River, as per Procedure 4.10.05, Waterpower Site Release – Crown Land. I am writing to outline the next steps in Aboriginal engagement and consultation for the site release and environmental assessment processes, and to clarify MNR's responsibilities versus Xeneca's responsibilities.

As per the Site Information Package, there are both Local Aboriginal Communities (LAC) and Identified Aboriginal Communities (IAC) associated with this site. The IACs include:

Brunswick House First Nation,
Chapleau Cree First Nation,
Chapleau Ojibwe First Nation and
Mattagami First Nation,

The LACs include:

Flying Post First Nation,
Taykwa Tagamou First Nation and
Metis Nation of Ontario – Timmins Council.

In addition, there are two more Aboriginal communities who must also be notified as part of the Water Power Class EA of this project. These two communities must be notified of this project proposal due to past interest they have indicated in these types of projects and/or the geography of the project:

Michipicoten First Nation and
Moose Cree First Nation.

The District has notified the IACs and the LACs of Xeneca's decision to proceed with the site release and the next steps in the process.

Page 2
May 9, 2011
Update regarding proposed Non-Competitive Site Release

Xeneca is responsible for engaging the IACs in business to business discussions. The 180 day engagement period formally commenced with the submission of the Applicant Declaration Form. Xeneca must provide regular status reports to the District on the progress of the engagement with the IACs and a final report at the end of the engagement period. To date, Chapleau District has not received any status reports on the business to business discussions regarding the Ivanhoe River sites. Chapleau District may also independently communicate with the IACs during this engagement period to track progress.

At the end of the 180 day engagement period, the District Manager will assess the efforts made by both Xeneca and the IACs to reach an agreement, based on Xeneca's final report and feedback from the IACs. Based on this assessment, the District Manager will proceed with one of the following options:

- Allow the Site Release to proceed;
- Provide additional time, as specified by the District Manager, for Xeneca and the IACs to reach an agreement; or
- Cancel the Site Release, with explanation

Concurrent with Xeneca's site release process is the Water Power Class Environmental Assessment. Xeneca must undertake to consult with all of the above identified communities as part of the environmental assessment for this project. Xeneca must provide regular status reports to the District on the efforts and substance of the consultation with the communities, and provide a final report at the end of the engagement period. To date, Chapleau District has not received any status reports regarding consultation discussions regarding the Ivanhoe River sites. Any information that the District receives from the Aboriginal communities pertaining to concerns and interests with these sites will be forwarded to Xeneca for consideration during the environmental assessment process, and will be considered as the Ministry seeks to fulfil its duty to consult.

If you have any questions about the above, or if you would like to meet with District staff to discuss further, please contact Susan Collins Lindquist, Resource Liaison Specialist, at 705-864-3120, susan.lindquist@ontario.ca

Sincerely,



Paul Bernier
District Manager
Chapleau District

\scl

cc: Xeneca - Dean Assinewe – Aboriginal Relations Liaison
MNR - Susan Collins Lindquist – Resource Liaison Specialist
MNR - Tim Mutter – District Planner

Ministry of Natural Resources

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May 17, 2011

Chief Walter Naveau
Mattagami First Nation
P.O. Box 99
Gogama, ON P0M 1W0

SUBJECT: Update regarding proposed Non-Competitive Site Release Application for Waterpower Development –

a) Ivanhoe River, The Chutes, in Oates Township, and
b) Ivanhoe River, Third Falls, in Belford Township

Dear Chief Naveau,

Further to our previous letter of June 22, 2010 on the subject application, this letter is to advise of Xeneca Power Development Inc's decision to continue to proceed with the site release process for the proposed water power development on the Ivanhoe River in Oates and Belford Townships.

The next step in the site release process is for the applicant to engage the Identified Aboriginal communities listed below, with the intent of establishing a business to business relationship in support of this project. It is our understanding that this dialogue is already underway with your community. The applicant (Xeneca) will be required to report to the Chapleau District Manager on progress related to establishing this business to business relationship. Chapleau District may also communicate independently with the 'Identified' Aboriginal communities during this engagement period to track progress. Based upon the applicant's report of engagement efforts and from information received from the 'Identified' Aboriginal communities, the Chapleau District Manager will determine whether to proceed with issuance of the "Applicant of Record" for these sites.

The 'Identified' Aboriginal Communities associated with this water power application are:

- Brunswick House First Nation
- Chapleau Cree First Nation
- Chapleau Ojibwe First Nation
- Mattagami First Nation

"Applicant of Record" is the completion of the site release process for a potential waterpower project. Applicant of Record grants the applicant the opportunity to pursue the required approvals and permits for waterpower projects. There is no right, title, interest or tenure associated with Applicant of Record status.

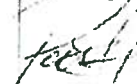
Page 2
Update regarding proposed Non-Competitive Site Release Application

"Applicant of Record" has not been issued for this site. In order to make an informed decision regarding the site release application, the Chapleau District Manager requires a report from Xeneca by **July 27, 2011** summarizing any efforts the applicant has made to engage with your community about this project. As well, the Chapleau District Manager may seek feedback directly from your community on the business to business engagement between Xeneca and your community.

The Ministry of Natural Resources has agreed to support a concurrent site release and environmental assessment process for this application. We have advised the applicant to include your community in their consultation efforts during the environmental assessment for this project. Chapleau District would also like to know about any concerns you may have with the project, specifically whether you anticipate any impacts on your community or the ability to exercise your Aboriginal and/or treaty rights. The information received by Chapleau District from Aboriginal communities may be forwarded to the applicant for consideration during the Environmental Assessment process, and will be considered as Chapleau District seeks to meet its consultation obligations with Aboriginal communities.

If you have any questions or would like to meet to discuss your community's interest, please contact Susan Collins Lindquist, District Resource Liaison Specialist, at 705-864-3120, susan.lindquist@ontario.ca.

Sincerely,



Paul Bernier
District Manager
Chapleau District

\scl

cc: Xeneca – Patrick Gillette – President and CEO
Xeneca – Dean Assinewe – Aboriginal Relations Liaison
MFN – James Naveau - Lands and Resources
MNR - Susan Collins Lindquist – Resource Liaison Specialist
MNR - Tim Mutter – District Planner, Chapleau District

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May 17, 2011

Chief Murray Ray
Flying Post First Nation
33 First Street
P.O. Box 1027
Nipigon, ON, P0T 2J0

SUBJECT: Update regarding proposed Non-Competitive Site Release Application for Waterpower Development –
a) Ivanhoe River, The Chutes, in Oates Township, and
b) Ivanhoe River, Third Falls, in Belford Township

Dear Chief Ray:

Further to our previous letter of June 22, 2010 on the subject application, this letter is to advise of Xeneca's decision to continue to proceed further with the site release process for the proposed water power development on the Ivanhoe River in Oates and Belford Township.

The "Local" Aboriginal Communities associated with this water power application are:

- Flying Post First Nation
- Taykwa Tagamou
- Metis Nation of Ontario – Timmins Council

"Applicant of Record" is the completion of the site release process for a potential waterpower project. Applicant of Record grants the applicant the opportunity to pursue required approvals and permits for waterpower projects. There is no right, title, interest or tenure associated with Applicant of Record status. Applicant of Record has not been issued for this site.

The Ministry of Natural Resources has agreed to support a concurrent site release and Environmental Assessment process for this application. We have advised the applicant to include your community in their consultation efforts during the Environmental Assessment for this project. Chapleau District would also like to know about any concerns you may have with the project, specifically whether you anticipate any impacts on your community or the ability to exercise your Aboriginal and/or treaty rights. The information received by Chapleau District from Aboriginal communities may be forwarded to the applicant for consideration during the Environmental Assessment process, and will be considered as the Chapleau District seeks to meet its consultation obligations with Aboriginal communities.

If you have any questions, or would like to meet to discuss your community's interest, please contact Tim Mutter, Project Lead at 705-864-3139, tim.mutter@ontario.ca or Susan Collins Lindquist, District Resource Liaison Specialist, at 705-864-3120, susan.lindquist@ontario.ca.

I look forward to your response.

Sincerely,



Paul Bernier
District Manager
Chapleau District

\scl

cc: Xeneca – Patrick Gillette, President and CEO
FPFN - Ryan Ray, Lands and Resource Coordinator
MNR - Susan Collins Lindquist, Resource Liaison Specialist
MNR - Tim Mutter, District Planner

Pilar DePedro

From: Mutter, Tim (MNR) [tim.mutter@ontario.ca]
Sent: June-01-11 9:35 AM
To: Patrick Gillette; Mark Holmes ; Ed Laratta ; Environmental Assessment Information; Pilar DePedro
Cc: alan.rowlinson@dfo-mpo.gc.ca; Snucins, Ed (ENE); Cramm, Ellen (ENE); Guthrie, Bill (MNR); Vascotto, Kris (MNR); Lindquist, Susan (MNR); dave.bell@ceaa-acee.gc.ca; Dosser, Sandra (MNR); Tami Sugarman; Kentish, Lianne (ENE); dgreen@nrsi.on.ca
Subject: FW: Draft EA Coordination Meeting Minutes - Ivanhoe River - For Participant Review
Attachments: 20110419 Ivanhoe River EA Coordination Meeting Minutes DRAFT May 31.docx; PD COMMENTS _ THIRD FALLS.doc; Ivanhoe Chutes DRAFT Fish Obj.pdf; MNR Management Objectives for the Ivanhoe River_DRAFT.pdf; PD COMMENTS _ Chutes.doc

Hi folks:

In follow-up to the draft EA scoping meeting minutes that OEL recently sent out, I would like to provide you with the following additional documents on behalf of Chapleau District MNR (attached):

- Project description comments for the Chutes site
- Project description comments for the Third Falls site
- General Management Objectives for the Ivanhoe River
- Fisheries Management Objectives for the Ivanhoe River

If you have any questions or comments, please feel free to call. Thank you.

Tim Mutter
District Planner &
Conservation Reserve Mgr.
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139
Fax. 705-864-0681
email:tim.mutter@ontario.ca

From: Environmental Assessment Information [<mailto:eainfo@oel-hydrosys.ca>]
Sent: Tuesday, May 31, 2011 3:27 PM
To: Dosser, Sandra (MNR); Guthrie, Bill (MNR); Mutter, Tim (MNR); Vascotto, Kris (MNR); Lindquist, Susan (MNR); Kentish, Lianne (ENE); Lindquist, Susan (MNR); sect@onlink.net; Cramm, Ellen (ENE); Snucins, Ed (ENE); Kwan, Helen L. (MEI); Alan Rowlinson; Haya Finan; Caitlin Scott; dave.bell@ceaa-acee.gc.ca
Cc: Tami Sugarman; 'Dean Assinewe'; dgreen@nrsi.on.ca
Subject: Draft EA Coordination Meeting Minutes - Ivanhoe River - For Participant Review

Good afternoon;

Draft meeting minutes of the EA Coordination meeting for the proposed the Chute and Third Falls waterpower projects on the Ivanhoe River, held at the MNR District Office in Timmins on April 19th, 2011 are attached for review by meeting participants.

We would ask that you distribute internally to anyone else who from your organization that may have participated in the meeting.

Distribution of these meeting minutes to anyone other than a participant, or an invited participant requires prior approval by all those on the distribution list.

The final minutes from this meeting will be included as a component of the environmental report. At this time there have been several requests for copies of the meeting minutes to be made available to non meeting participants. Accordingly, we would request that, when providing comments back on the minutes, that participants identify if they have an objection to the general distribution of the minutes prior to their inclusion in the environmental report.

Please note that all review comments are requested no later than noon on June 7th , 2011.

Best regards,

Pilar DePedro

Environmental Assessment Information - OEL-HydroSys Carp - (613) 839-1453

Project Description Comments - Chutes

By: Chapleau MNR

To: Xeneca Power Development Inc./ OEL Hydrosys

May 30, 2011

As requested, please consider this letter as comments from the Ontario Ministry of Natural Resources – Chapleau District (OMNR) to Xeneca Power Development Inc. (Xeneca) with respect to the Project Description – Ivanhoe River: The Chutes Proposed Hydroelectric Generating Station, submission dated November 29, 2010.

The OMNR is acting as a commenting agency during the Ontario Water Power Class Environmental Assessment, however, this process is also being used, in part, to fulfill requirements associated with location approval for the project, as granted under the Lakes and Rivers Improvement Act (1990). Under this legislation, the OMNR is obligated to ensure that purposes 2(d), 2(e) and 2(f) of the act are maintained. If this surety is not provided through the EA process, it must be achieved prior to the granting of location approval. For more precise details of the information expectations of Xeneca, the OMNR recommends that Xeneca review the attached Management Objectives, Fisheries Objectives and minutes from the EA scoping meeting held in Timmins on April 19th, 2011.

Generally, the Project Description for the Chutes was insufficient to conduct a thorough review and provide substantive, specific comments to Xeneca. Little detail was provided on the construction, operation, transmission routes or zone of influence of the facility. However, we do have some comments pertaining to the information that was submitted in the Project Description.

Any economic benefit of the project should include any potential economic losses that may be incurred to local tourist operators that substantially contribute to the regional economy. In addition, economic analysis should attempt to quantify the expenditures associated with local recreational use of the river and how this may be impacted. This will allow a full understanding of the local impact of the proposed development and will inform the development of the operational regime (flows and levels) such that the structure is operated in a manner that minimizes potential detrimental impacts. Local tourism operators and area residents have indicated to the OMNR that the reach below the Chutes is a desired destination for various activities and have expressed concern that the proposed development may impact both the aesthetic value of the site and the yield of sportfish (brook trout, walleye and northern pike) currently sustained.

The list presented in the Project Description of authorizations required for construction is insufficient. As discussed during the EA scoping meeting of April 19th 2011, further details on the design of the facility and proposed construction methods will be required before MNR can provide a comprehensive list of required permits and approvals.

Downstream from this site is the Northern Clay Belt Forest Complex Conservation Reserve – C1702 (with a second development proposed directly adjacent to the boundary of the Conservation Reserve). Within this Conservation Reserve are known spawning locations for Special Concern Lake Sturgeon populations, as well as various coldwater tributaries hosting sensitive species – among other sensitive ecological values. Xeneca must demonstrate that construction and operation of the proposed facility will have no detrimental impact on the ecological integrity of the downstream conservation reserve. This must be demonstrated through effective baseline assessment and data collection prior to construction and post-construction monitoring and mitigation.

With respect to proposed operations, Chapleau District has repeatedly communicated to Xeneca via letter and face-to-face meetings that flows downstream from the facility be maintained at a seasonal 80th percentile to protect the ecological integrity of the river, fishery and the Special Concern sturgeon population in the downstream Conservation Reserve. To date, Xeneca has provided dam operation plans that promise minimum flows beyond the 99.99th percentile flows downstream from the site. Some agreement must be reached between Xeneca and Chapleau District regarding flows to ensure legislated obligations under the Lakes and Rivers Improvement Act (1990) and Provincial Parks and Conservation Reserves Act (2006) are maintained prior to granting of any approvals.

As per the provisions of the Lakes and rivers Improvement Act, the proponent will not have authority to operate the proposed facility in such a manner that leads to flooding or erosion in the conservation reserve beyond which would occur under normal environmental conditions. The project description currently does not articulate how this provision will be considered and how Xeneca will demonstrate that flooding or erosion within the conservation reserve boundary will not occur. Additional information will be required on the physical environment of the site. The proposed site location is located in the claybelt area, and will thus be very prone to sediment transport and erosion. The impact of construction/operation of the facility on these sediments must be considered including an understanding of downstream erosion potential associated with peaking of flows and channelization (or loss thereof).

No information has been provided on the thermal regime of the river (despite there being known populations of sensitive coldwater species such as brook trout and ling) or the impact that construction/operation of the facility may have on the ability of the up- and downstream reaches to support sensitive coldwater species.

The description of Socioeconomic Features does not describe the full usage of the site. As mentioned above, tourism operators are known to place clients on the Ivanhoe River at the Chutes site and local recreational use is known to be significant. This is not reflected in the Project Description and must be addressed prior to moving forward with the project. It is anticipated that Xeneca will both describe the current state of the fishery for species of special importance (brook trout, walleye and northern pike) and determine the net impact of the proposed construction/operation of the facility.

The biological assessment and proposed field studies presented in the Project Description will be insufficient as described to provide for location approval. For further details, it is recommended that Xeneca review minutes from the EA scoping meeting and attached objectives for the Ivanhoe River. At minimum, additional information is required on the aquatic community (benthic community, critical habitat for endemic fish species, current stock status) and the terrestrial community (riparian communities impacted by inundation, significant wildlife habitat features, Provincially significant wetlands – see objectives for full list) alongside the development of reference sites to determine degree of impact that may occur. Xeneca is strongly encouraged to discuss their workplan for the 2011 field season with District staff to ensure areas of concern are highlighted and addressed in the time available.

The importance of the upstream areas of the Chutes site in ensuring the productivity of the downstream reaches and the implications of construction/operation of the proposed facility are also absent from the Project Description. Given the substantial riffle/cobble/fast water habitat within the proposed inundation area, the loss of such area will likely profoundly impact downstream fish production. Discussion on the loss of this productive area will be required, alongside the development of any compensation plans prior to the granting of location approval.

Determination of the zone of influence of the proposed facility will require further discussion. Peer-reviewed research has suggested that the zone of influence of peaking facilities extends quite a distance downstream from the structure dependant on the contribution of downstream tributaries to the overall flows of the river. The zone of influence must clearly be defined prior to the full assessment of the impact that construction/operation of the facility may have.

Thank you for providing an opportunity for the OMNR to comment on your proposed project at the Chutes. Should you have any questions, please contact Tim Mutter or Bill Guthrie at the Chapleau District Office at (705) 864-1710

Fish Management Objectives for the proposed Chutes Hydroelectric Facility

The proposed development located at the Chutes site on the Ivanhoe River is located approximately 20 km downstream from the town of Foleyet and is located at the base of the locally known Chutes Falls.

Directly below the site is a walleye spawning area, and upstream areas are a combination of cobble/riffle habitat that is likely providing highly productive forage and/or valuable spawning habitat to aid in sustaining downstream fish populations.

At a site approximately 40 km downstream sits a second proposed site for development known as the Third Falls that directly abuts a conservation reserve. Within this reserve are known spawning locations for lake sturgeon – a population designated as Special Concern in accordance with the Endangered Species Act (2007). Anecdotal reports of sturgeon at the base of the Chutes site have been reported, however no confirmation (specimen or photographic) is available.

The proposed inundation area will flood the riffle/cobble habitat, and operations as described by the preliminary dam-operating plan include peaking activity as well as very limited flows during critical time periods relative to the natural regime. The distance downstream from the facility which will be impacted by variable flows remain to be determined and any consideration of impacts from construction/operation will require an understanding of this important piece.

As per Section 2.5 of the Fish Habitat Referral Protocol for Ontario, please find MNR's fisheries management objectives for the areas potentially affected by the construction of the proposed Chutes Hydroelectric Facility below.

Objectives:

- Maintain productivity of the site for fish species currently targeted by recreational anglers and anglers accessing the area through outfitters vital to the local economy. This includes walleye, northern pike and brook trout.
- Maintain productivity downstream of the site for fish species currently targeted by recreational anglers and anglers accessing the area through outfitters vital to the local economy. This includes including understanding the impact of planned variable flows on the contribution of the Ivanhoe River to the Groundhog River and sensitive life stages of fish including spawning, incubation and migration.
- Maintain/enhance the downstream special concern sturgeon population within both the Ivanhoe and Groundhog rivers, including understanding the impact of planned variable flows on sensitive life stages including spawning, incubation and migration.

Fish passage concerns

As per section 2.5.2 of the Fish Habitat Referral Protocol for Ontario, please find MNR's concerns regarding fish passage below.

- Given the substantial drop located at the Chutes site, it is likely that the fall is acting as an upstream barrier to fish migration. Downstream movement of larvae and adult fish is likely. Dam operation should allow for continued downstream movement through the operation of the spillway.

Chapleau District Management Objectives for the Ivanhoe River

Presented below are the Chapleau District management objectives for the sites proposed for hydropower development by Xeneca Power Development Inc. on the Ivanhoe River. The document begins with a brief discussion of the legislative and policy documents which must be addressed prior to the recommendation of the release of the site for location approval, followed by a list of definitions of terms included in the objectives, and concludes with the management objectives.

Legislative Basis

Lakes and Rivers Improvement Act (LRIA):

MNR is the provincial agency that provides location and plans and specification approvals under the Lakes and Rivers Improvement Act for dam development in Ontario. MNR has the mandated responsibility to ensure that provisions under the LRIA are adhered to which include the following relevant purposes:

- The management, perpetuation and use of the fish, wildlife and other natural resources dependent on the lakes and rivers (purpose 2d);
- The protection of the natural amenities of the lakes and rivers and their shores and banks (purpose 2e).

In addition, section 23(1) addresses the need to prepare an operation plan to ensure that the above purposes are maintained not just through construction, but during operation as well.

Federal Fisheries Act:

Fisheries and Oceans Canada (DFO) has established a fish habitat referral protocol with Ontario to address the Federal Fisheries Act. Responsibilities of the Ontario Ministry of Natural Resources (OMNR) include communication to DFO regarding OMNR fisheries management objectives. In addition, the OMNR commits to reviewing applications to provide for ecosystem based water level and flow objectives that will support the ecological sustainability of aquatic systems for purpose 2d) of the LRIA and to achieve our fisheries management objectives.

Provincial Parks and Conservation Reserves Act (PPCRA):

This legislation provides for conservation of ecological values inherent in Ontario's protected areas, including parks and conservation reserves. Relevant to the projects proposed on the Ivanhoe River are objectives 1 and 4 in 2006, c. 12, s. 2 (1) of the Act and objectives 1 thru 3 in 2006, c. 12, s. 2 (2) of the act:

Objectives – Provincial Parks

- To permanently protect representative ecosystems, biodiversity and provincially significant elements of Ontario's natural and cultural heritage and to manage these areas to ensure that ecological integrity is maintained.
- To facilitate scientific research and to provide points of reference to support monitoring of ecological change on the broader landscape.

Objectives – Conservation Reserves

- To permanently protect representative ecosystems, biodiversity and provincially significant elements of Ontario's natural and cultural heritage and to manage these areas to ensure that ecological integrity is maintained.
- To provide opportunities for ecologically sustainable land uses, including traditional outdoor heritage activities and associated economic benefits.
- To facilitate scientific research and to provide points of reference to support monitoring of ecological change on the broader landscape. 2006, c. 12, s. 2 (2).

The Northern Claybelt Forest Complex Conservation Reserve is located directly below the proposed Third Falls site, and approximately 40 km downstream (path of river) from the Chutes site. The Groundhog River Provincial Park is also located downstream of Third Falls at the point where the Ivanhoe River joins the Groundhog River. Both of these protected areas may be significantly impacted by the construction/operation of the proposed facilities.

As previously discussed with Xeneca, under the provisions of the PPCRA, hydropower development within protected areas is prohibited. Furthermore, no flooding, erosion, or channelization is permitted within the CR or Park and flows must be maintained that allow the perpetuation of aquatic communities (including the known/potential sturgeon spawning locations located a short way downstream from the Third Falls site on the Ivanhoe and Groundhog Rivers).

DRAFT

Policy Basis

Environmental Bill of Rights and OMNR's Statement of Environmental Values

MNR has committed to the Environmental Bill of Rights through the development and use of OMNR's Statement of Environmental Values and guidance principles.

Our Sustainable Future - A Renewed Call to Action (2011):

This policy piece speaks to the principles, long-term goals and strategies to achieve those goals within the Ontario Ministry of Natural Resources. The general theme of the policy speaks to sound decision making to maintain the integrity of our aquatic and terrestrial ecosystems. This includes the development of renewable resources in a manner that ensures the sustainability of natural ecosystems. With reference to the aquatic ecosystems, the document outlines this strategy:

Aquatic ecosystem management:

- Work with other ministries, conservation authorities and other agencies to sustain aquatic ecosystems, including the maintenance and restoration of ecosystem structure, composition and function. This includes sustaining water resources and their hydrological function, maintaining water quantity and quality to sustain aquatic life, and protecting and restoring riparian and aquatic habitats

A second piece speaks to our commitment to renewable energy, including the following relevant strategy:

Enabling:

- Prepare and implement strategies that align renewable energy development on Crown land with the long-term energy planning needs of the province; stimulate new opportunities; and consider environmental benefits, impacts and thresholds.

These two strategies must be considered in tandem, with the long term goal of ensuring that any renewable energy project does not compromise the aquatic ecosystem beyond a threshold that offsets both the environmental and economic benefits of the program.

Biodiversity Strategy (2005):

Ontario has developed a policy to encourage the preservation and sustainable usage of biodiversity in Ontario (Ontario's Biodiversity Policy, 2005). The two main goals of this policy include:

1. Protect the genetic, species and ecosystem diversity of Ontario.
2. Use and develop the biological assets of Ontario sustainably, and capture benefits from such use for Ontarians.

The policy includes various principles to achieve this, including that development decisions must include consideration of conservation of biodiversity. This includes both the terrestrial and aquatic habitat, and all levels of the food web.

Ontario Resource Based Tourism Policy (1997):

Ontario has committed to the sustainability of Resource Based Tourism in Ontario through the Ontario Resource Based Tourism Policy (1997) and is further supplemented by the Crown Land Use Policy for G1770 (area within the ZOI), as outlined in the Crown Land Use Policy Atlas.

Applicable objectives from the 1997 policy include:

- Ensure that the natural resource the resource-based tourism industry depends on is managed in a sustainable manner and,
- Implement a fair and open process for the allocation of tourism-related natural resources and for the resolution of potential conflicts.

The Crown Land Use Policy Direction for the area surrounding the projects includes:

- Tourism will be promoted as the primary land use objective
- MNR will manage tourism waterbodies with the intent of sustaining their remote character

Presently, there are multiple outfitters actively using areas within the area proposed to be impacted by the projects to provide recreational angling opportunities for their guests on a regular basis during the open season. Any project within this area must ensure that this opportunity is

maintained and not degraded in such a manner as to impair the ability of the outfitters to engage in their tourism practices.

Strategic Plan for Ontario's Fisheries II (1991)

This document provides a path forward for planning and maintaining fisheries in Ontario. Included in the document are five guiding principles for freshwater fisheries in Ontario, with the following principal applicable to hydropower development in Ontario:

- Sustainable development requires that adverse impacts on natural elements such as air, land and water, be minimized to ensure the aquatic ecosystem's overall integrity.

Minimization of adverse impacts is integral to the sustainability of the commercial and recreational fishery on the Ivanhoe River.

Chapleau District Fisheries Management Plan (1989)

The Chapleau District Fisheries Management Plan was prepared to guide the long-term management of fisheries in Chapleau District. The document separates the District into three distinct fisheries zones including a Quality Fishing Zone, an Enhanced Fisheries Zone and a Maintenance Fishing Zone. Both sites on the Ivanhoe River are within a Maintenance Fishing Zone. Specific Management Intent for this zone includes:

- The fisheries in this zone will be maintained and protected

Also presented are several strategies and tactics to achieve those goals. Pertinent to waterpower include the following tactics to address habitat degradation and the protection of critical fish habitat:

- When reviewing resource development plans ensure fish habitat protection guidelines and environmental guidelines for access roads and stream crossing are followed
- Under the administration of the Fisheries Act, apply the principle of "No Net Loss"
- Negotiate with water control agencies to reduce or eliminate water level changes during spawning and incubation periods.
- Apply federal fisheries habitat policy of "Net Gain" of habitat where appropriate during resource development activities

Under this direction, any critical habitat or populations that are to be inundated or otherwise negatively impacted by the construction/operation of the proposed facilities must be locally compensated for.

Definitions:

Native fish species: Includes all known species currently inhabiting the Ivanhoe River. Species of recreational/commercial value include walleye (*Stizostedion sanders*), northern pike (*Esox lucius*), brook trout (*Salvelinus fontinalis*), and lake sturgeon (*Acipenser fulvescens*). Native fish species does not include invasive/introduced species such as the smallmouth bass (*Micropterus dolomieu*) and brown bullhead (*Ictalurus nebulosus*).

Zone of Influence: Any area (terrestrial or aquatic) where flow conditions or water levels or flows will be altered as a result of construction or operation of the proposed hydroelectric development. The zone of influence accepted by Chapleau District may differ with that presented by the proponent and is based on discussions with OMNR hydrologists.

Local Compensation: Any compensation that may be undertaken will be conducted on a scale specific to the Kapuskasing River in the area of the proposed development. This will ensure the management objectives specific to the river are maintained.

Bypass: Reach of river between the dam control structure and the end of the tailrace.

Species of enhanced natural or socio-economic value: Specific to the Ivanhoe River, this includes walleye, northern pike, brook trout and lake sturgeon.

OMNR Management Goals for the Ivanhoe River Xeneca Hydroelectric Power Development Project Area

Goal 1:

Protection and maintenance of ecological integrity (including native biodiversity and community structure of the aquatic and terrestrial communities) within the Ivanhoe River segment and tributaries within the zone of influence (including both up- and down-stream reaches) and any tributaries directly/indirectly impacted by construction/operation of the proposed facility.

MNR Concern: Loss of fast-water habitats, altered riparian areas and the impact of the loss of these critical areas on overall ecological health of the river including impacts to benthic invertebrate communities, areas necessary for critical life stages of all members of the aquatic community, riparian areas and additional impacts to native species biodiversity and stock.

Objectives:

- Maintain the species biodiversity and genetic diversity of the native aquatic species (including vertebrate, invertebrate and vegetation species) throughout the stretches impacted by the proposed hydroelectric developments. This can only be achieved by understanding the pre-construction attributes of the entire river, including those highly sensitive areas that will be bypassed by the raceway.
- Maintain endemic fish populations bounded by the developments and ensure they are not negatively impacted by construction or operation of the facilities.
- Maintain existing thermal regime of zone of influence to allow the perpetuation of sensitive coldwater species.
- Maintain flows and levels that sustain and maintain access to ecosystem features required for annual lifecycle needs including reproduction, nursery, refuge, feeding and growth requirements of naturally reproducing native fish communities for the Ivanhoe River, including the riffle-pool habitat impacted by the inundation areas, bypass and tailrace structures.

Strategy:

Baseline assessment accompanied by monitoring before and after facility construction/operation. Operation will focus on achieving tangible results

Fish species of enhanced socio economic and ecological value include walleye and northern pike. This goal is in harmony with Goal 1, Goal 2 and Section 5.0 actions outlined in Ontario's Biodiversity Strategy (2005). It is also consistent with the Goal, Objective 1 and Objective 2 of the Ministry of Natural Resources Statement of Environmental Values (2006). It is also consistent with Chapleau District Fisheries Management Plan (1989) and Our Sustainable Future – A Renewed Call to Action (2011).

Goal 2:

The maintenance of the diversity within existing aquatic and terrestrial habitats along and within the zone of influence of the proposed hydro generation developments on the Ivanhoe River. This includes both inundation areas and areas prone to periodic flooding/dewatering resulting from modified peaking activity proposed as an integral part of the hydro generating facilities.

MNR Concern: That fish, wildlife and other natural resources dependent on the Ivanhoe River are not impacted due to alterations of existing aquatic and terrestrial habitats resulting from project development. In addition, construction/operation of the site may have detrimental impacts to the downstream conservation reserve and provincial park.

Objectives:

- Dam operation will focus on seasonal/monthly minimum flows at the 80th percentile to ensure downstream habitat is not significantly altered and those species dependant on continued stable flows are maintained.
- Where productive habitat may be lost (e.g. in bypass reaches and zone of inundation, habitat compensation will be as local as possible, and wherever possible, will emulate natural conditions to sustain current species diversity by maintaining natural habitat features and ecosystem function (for example retain riffle/cobble environments to maintain unique benthic invertebrate, fish and riparian communities)
- Wherever possible, minimize operational impacts to riparian vegetation (and associated mammalian/bird/insect communities) through effective water management planning and baseline data collection prior to inundation.
- Maintain existing diversity of terrestrial and aquatic habitats by protecting representative areas and locally compensating for any areas lost by development.

The maintenance of habitat diversity is seen as a necessary prerequisite for achieving the species biodiversity goal described in goal # 1. The habitat diversity goal is consistent with the aquatic habitat protection recommendation stated in Section 7.0 of the Strategic Plan for Ontario's Fisheries II (1990), goal # 1 of MNR's Strategic Direction: Our Sustainable Future (2005) and also considers provision (d) & (e) of the Lakes and Rivers Improvement Act.

Strategy:

- Baseline monitoring before and after facility construction/operation. Operation will focus on achieving tangible results.
- Adaptive management will be employed in the event that monitoring detects a change in sensitive metrics identified through pre- and post-construction monitoring.

Goal 3:

Maintain the wealth of opportunities for diversified and sustainable angling experiences for all species of *enhanced socio economic value* within the zone of influence of the proposed Xeneca hydrogeneration facilities on the Ivanhoe River (including inundation areas and regions impacted by modified peaking activity). This includes maintaining current sustainable yields for fish of *enhanced socio economic value* and current angling quality.

MNR Concern: Dam developments on the Ivanhoe River will negatively affect the diversity and sustainability of the existing recreationally and commercially important fishery on the Ivanhoe River within the proposed zone of influence. Outfitters are currently placing clients throughout the summer months on the Ivanhoe River focussing on walleye, northern pike and brook trout. There is concern that construction/operation of the facility may reduce the stock of those species of enhanced socio-economic importance, thus negatively impacting these user groups and the overall economy of Ontario's North.

Objective:

- Determine and maintain the existing stock of sport-fish in the zone of influence by ensuring that habitat and resources imperative to specific life stages are maintained or locally compensated for. This includes spawning areas, nursery habitats and feeder areas. This will be used as a post-construction target.
- Maintain the derived benefits to anglers and outfitting businesses utilizing the affected waterway by sustaining current fish species biodiversity, thermal regime, ecosystem form and function and by preventing the invasion and establishment of invasive species.

This goal supports the themes of healthy aquatic ecosystems supporting biodiversity; social and economic benefits and is outlined in MNR's strategic directions; Ontario's Resource Based Tourism Policy; Crown Land Use Policy for G1770; and Our Sustainable Future – A Renewed Call to Action.

Goal 4:

Construction/operation of the proposed facilities must not impact the ecological integrity of the downstream conservation reserve and provincial park. This includes the terrestrial and aquatic environments and the natural features (shoreline, river morphology) of the protected areas.

- **MNR Concern:** That the physical and natural environment of the downstream protected areas will be detrimentally impacted through a loss of habitat in the bypass reaches critical to the health of the downstream aquatic community (including special concern lake sturgeon), altered thermal regimes resulting from construction of the headpond and the impacts on downstream communities, erosion and channel shifting resulting from peaking activity, and the impact of dam operation on critical life stages of sensitive species in the protected areas (lake sturgeon, brook trout, walleye, northern pike).

Objective:

- Baseline data collection will focus on key metrics to describe the downstream environment, including habitat description, thermal metrics, channel morphology, benthic indices and a description of the existing physical environment. This will be used as a target for post-construction monitoring.
- Post construction/operational monitoring will be used to determine if operations are detrimentally impacting the ecological integrity of the site. If impacts beyond the range of natural variation are detected, adaptive management will be required to minimize those impacts.

Strategy:

- Monitoring and adaptive management will be used to determine if construction/operation is having an impact on the ecological integrity of the protected area located downstream of the proposed hydropower sites.

The maintenance of the ecological integrity and physical environment of Conservation Reserves and Provincial Parks is legislated under the Provincial Parks and Conservation Reserves Act.

Pilar DePedro

From: Tami Sugarman
Sent: June-23-11 12:11 PM
To: Mutter, Tim (MNR); Pilar DePedro
Cc: Kai Markvorsen; Riche, Carla (MNR)
Subject: RE: Transmission Line Information

Hi Tim

I spoke with Xeneca yesterday about the voltage of each of the options being considered by Xeneca for The Chute and Third Falls projects.

The Chute line is proposed as 44kV and the Third Falls line is 69kV, therefore both are less than 115Kv lines.

As such, this component of the project would normally not be considered in the OWA Class EA for Waterpower Projects as this voltage line falls into Category A which is exempt from EA.

However, the federal EA screening process has required that the transmission line be included in the scope of the project. So a federal screening is being conducted for this component. Also, the provincial EA Act does not take lightly to piecemeal projects therefore as the Class EA for Waterpower projects is a proponent driven EA planning process and given the above federal issue, Xeneca has scoped the transmission line corridors into the OWA Class EA for Waterpower Projects planning process.

There was at the time of the EA coordination meeting an idea that it may be worth investigating separating this component but since then Xeneca has decided to drop this idea.

As per the Class EA for Provincial Parks and Conservation Reserves Section: 5.1.3 of the OWA Class EA for Waterpower Projects clearly indicates, especially in the last paragraph of this section and as I believe you alluded to below, that for "Projects by Other Proponents" and along with the Provincial policy to allow development and maintenance of new electricity transmission line corridors through a PP; when this occurs the MNR will recognize the other Class EA planning process and will participate in it to ensure that protected values are properly identified and considered.

All this to say that the OWA Class EA planning process should be the only formally followed provincial planning process for this undertaking. Xeneca has agreed to address any MNR planning requirements in this Class EA, as appropriate.

Hope this helps,
Tami

Tami Sugarman - OEL-HydroSys Carp - (613) 839-1453 x229

From: Mutter, Tim (MNR) [mailto:tim.mutter@ontario.ca]
Sent: June 23, 2011 11:29 AM
To: Pilar DePedro
Cc: Tami Sugarman; Kai Markvorsen; Riche, Carla (MNR)
Subject: RE: Transmission Line Information

Pilar,

Are both of these lines (chute and third falls) being planned under the Waterpower Class EA or otherwise? This was the nature of our discussion during the EA scoping meeting. See below.

I'm looking for clarification as to which lines are being planned under which EA? I am trying to scope out the process requirements at this stage before we can start to tally our comments on these routes.

Also, the Provincial Parks and Conservation Reserves (PPCR) Class EA may be triggered for the portions that run through the park and CR, depending on how these are being addressed. The EA requirements can be embedded into the Waterpower Class EA, but it needs to meet certain standards in terms of consultation, review and evaluation and may involve the imposition of certain conditions with respect to the protected areas (park/CR).

Thx.

OEL (TS) provided a synopsis of each site noting The Chutes transmission line is 26kV and Third Falls is 115kV according to the project description. The Waterpower Class EA classifies powerlines under 115kV capacity to be exempt from assessment. The MNR Class EA for Resource Stewardship and Facility Development (RSFD) process may be required to assess the transmission line component for The Chute. MNR (TM) noted that further discussion needs to take place to determine which transmission route would be reviewed under the Waterpower Class EA and which route may be assessed under the RSFD Class EA. The processes can be harmonized, but further discussion will need to take place to determine how the consultation and evaluation components can be merged. OEL (TS) added that the proponent may be proposing a separate EA for the transmission corridors. TM mentioned that in order to initiate the RSFD Class EA for the Chute transmission line, the district would need to receive a formal request for all the required permits and approvals (easement, work permits, forest resource license, etc) along with a formal project description.

Tim Mutter
District Planner &
Conservation Reserve Mgr.
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139
Fax. 705-864-0681
email:tim.mutter@ontario.ca

From: Pilar DePedro [mailto:pdpedro@oel-hydrosys.ca]
Sent: Wednesday, June 22, 2011 4:27 PM
To: Mutter, Tim (MNR)
Cc: Tami Sugarman; Kai Markvorsen
Subject: Transmission Line Information

Hi Tim,

The information gathered so far is what is in the KBM Transmission Line Summary Report which is in the process of being finalised for inclusion in the EA. I sent you a copy of the mapping some time ago. The finalised report contains information about line length, routing, number and type of water crossings and private/crown land as well as access roads required to access the site. At this point it is anticipated that the ROW for the line

corridor width will be approximately 20m though this may range between 10-30m depending on site specific conditions.

With regards to distribution line capacity the capacity of Option 1 (the line running south from the Chute looping up around the Vimy Lake Uplands CA) will not exceed 44 kV.

At this point Xeneca is also evaluating the potential for a line (Option 2) running northeast to Nova road and then from there east and then south to a different point of connection (115kV). This line would be the one crossing the Groundhog River Provincial Park. Our understanding at the moment is that the line would be 44kV and then would be bumped up at the connection point though we're in the process of confirming the specifics, I will let you know when this information becomes available.

Let me know if there is any additional information I can provide you with at this point.

Regards,

Pilar

Pilar DePedro - OEL-HydroSys Carp - (613) 839-1453 x225

Pilar DePedro

From: Mutter, Tim (MNR) [tim.mutter@ontario.ca]
Sent: June-22-11 3:59 PM
To: Vanesa Enskaitis; Guthrie, Bill (MNR); Ed Laratta
Cc: Pilar DePedro
Subject: RE: Project on Ivanhoe River

Vanessa/Ed:

Based on my conversation with Ed yesterday, I understood that Xeneca was prepared to hold additional PICs with regard to the Ivanhoe River sites. Ed and I spoke and I mentioned that ideally PICs should be held in Foleyet, Timmins, and Chapleau. Ed mentioned that this may be too onerous and that Xeneca might be able to do 2 out of the 3 communities. If that's the case, we would highly recommend the PICs to be held in Foleyet and Timmins respectively. However, we would advise that newspaper notices for the 2 PICs (Foleyet and Timmins) should be posted in both Chapleau and Timmins new outlets to cover off interested stakeholders in those communities. Notices for the Foleyet open house might be coordinated through Shiela or Ivanhoe Lake Cottage Association as appropriate.

Just our recommendations.....Please call if you have any questions.

Tim Mutter
District Planner &
Conservation Reserve Mgr.
Chapleau District
Ministry of Natural Resources
190 Cherry St.
Chapleau, Ont. P0M 1K0

Tel. 705-864-3139
Fax. 705-864-0681
email:tim.mutter@ontario.ca

From: Vanesa Enskaitis [mailto:VEnskaitis@xeneca.com]
Sent: Wednesday, June 22, 2011 11:38 AM
To: Guthrie, Bill (MNR)
Cc: Pdepedro@oel-hydrosys.ca; Mutter, Tim (MNR)
Subject: RE: Project on Ivanhoe River

Good morning Bill,
Thanks for your message. I wanted to forward you the ads for our Public Information Meeting in Foleyet on July 6, 2011. The ads will run in the Timmins Daily Press .
Please let me know if you have any questions.

Best regards,
Vanesa

From: Guthrie, Bill (MNR) [mailto:Bill.Guthrie@ontario.ca]
Sent: Monday, June 20, 2011 4:04 PM
To: Vanesa Enskaitis
Cc: Pdepedro@oel-hydrosys.ca; Mutter, Tim (MNR)
Subject: FW: Project on Ivanhoe River
Importance: High

Hello Vanesa:

Sheila Derasp forwarded your message to me regarding your planned Information Centre for the Chutes project to be held in Chapleau on July 7th. Our feedback following the first information centres held in Foleyet

was that there are a number of stakeholders with interests in the Ivanhoe River. Many are residents of Foleyet and cottagers on the lake. In addition there are others who regularly use the area – park visitors, trappers, etc from Chapleau and Timmins. For that reason we suggested that information centres for the Ivanhoe projects be held in these locations to fully inform everyone. At this time of the year there are also many non-resident seasonal clients of the outfitters, parks and other local businesses from the States who have an interest in this area. It would also be beneficial to hold a centre in Foleyet considering the recent developments with the Chutes project.

Bill Guthrie

From: Local Services Board-Foleyet [mailto:sect@onlink.net]
Sent: Monday, June 20, 2011 11:34 AM
To: Guthrie, Bill (MNR)
Subject: Fw: Project on Ivanhoe River
Importance: High

Hi Bill,

I guess the people in Foleyet who do not have transportation will be out of luck with this meeting in Chapleau. I am aware that the tourist operators are not pleased that this meeting is being held in Chapleau and I really don't blame them at all. When Xeneca attended here in January none of the tourist operators were able to attend because they were away. You did tell me that you would be meeting with xeneca this week sometime. I hope that you will let them know why it is important to hold a meeting here.

Get back to me.

Thanks again

Sheila Derasp

Secretary

LSB of Foleyet

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

From: Vanesa Enskaitis
To: sect@onlink.net
Cc: Vanesa Enskaitis
Sent: Friday, June 17, 2011 1:25 PM
Subject: RE: Project on Ivanhoe River

June 17, 2011

Hello Sheila,

Stephanie forwarded me your message as I am the project lead for our proposed Ivanhoe River projects.

We have just confirmed the details for our next Public Information Centre regarding the **Ivanhoe River: The Chute** project.

The PIC will take place on July 7, 2011 in Chapleau (location requested by the Ministry of Natural Resources).

We will be taking additional meetings beforehand if requested by local public interest groups.

I have attached the ads that will run in both the Timmins Daily Press and the Chapleau Express and you can feel free to post them.

Please let me know if you have any other questions.

Best regards,

Vanesa

From: Local Services Board-Foleyet [mailto:sect@onlink.net]
Sent: Wednesday, June 15, 2011 10:18 AM

To: Stephanie Hodsoll
Subject: Re: Project on Ivanhoe River
Importance: High

Good Morning Stephanie.

I have been approached about the next meeting for your firm to come to Foleyet. It was mentioned at the meeting on April 19th that June would be a better time to have the tourist outfitters in our region to attend, because they are not here in the winter months.

Could you touch base with me, so I can answer their questions.

Thank you,

Sheila Derasp

Secretary

Local Services Board of Foleyet

No virus found in this incoming message.

Checked by AVG - www.avg.com

Version: 9.0.901 / Virus Database: 271.1.1/3709 - Release Date: 06/17/11 02:34:00

Pilar DePedro

From: Vascotto, Kris (MNR) [Kris.Vascotto@ontario.ca]
Sent: June-28-11 2:38 PM
To: Ed Laratta; Dave Green; Pilar DePedro
Cc: Guthrie, Bill (MNR); Mutter, Tim (MNR); Dosser, Sandra (MNR); Deyne, Greg (MNR)
Subject: Preliminary Creel Survey Results
Attachments: P6170007 (Small).JPG; Creel White Pine Lodge June 17 2011.xls

Hi Folks,

As you may remember, Chapleau District has been conducting a creel survey on the Ivanhoe River to help inform all parties involved about the current level of usage of the sites by recreational anglers and commercial outfitters. Prior to the opening of walleye season, we distributed log-sheets to outfitters that we knew were using the Chutes/Third Falls sites and asked that they record catch/keep records for their clientele. On June 6th, we also posted notices and comment boxes at both the Third Falls site and the Chutes site (see attached picture). We revisited the sites on June 17th to collect comment cards, address any vandalism and also stopped by one of the outfitters to collect any information recorded to date.

Most interesting – we had no comments in our boxes at either the Third Falls or Chutes sites. There was evidence of travel (pickup truck tracks and boat launch well-used), but no comments were submitted. We are anticipating that we will be revisiting the sites after the long-weekend to replenish supplies and pickup any comments that may have been left.

I have attached the results from the outfitter that we visited. Information has been transcribed as presented on the log sheets – if anybody feels it is needed, I can scan and send along the raw sheets. The outfitter indicated there were several entries missing from the most recent week (sheet was in his office) but it was indicated that that information would be forthcoming. No other outfitters were visited because of time constraints – I hope to do a collection soon.

All activity was focused at the Chutes site, with the vast amount of effort being directed directly below the rapids from either shore or boat. In total, 65 walleye were harvested through this one operator – a pretty fair number. I'm guessing that activity will be low for June, but will pick right back up for July to September, then wane until the hunt starts. You can usually find a bit of a camp setup in the area around the Chutes site after the little ones get out of school. No pike or brook trout were recorded as harvested. From chatting with the outfitter, brook trout are generally focused on just after ice-out and our survey may have been implemented too late to get a decent idea of take and whatnot.

We'll keep you posted as this develops – just wanted to get this over to you ASAP as promised.

Thanks again!

Kris

*Kris Vascotto, Ph.D.
Biologist – Chapleau District
Tel. (705) 864-3162*

[illegible]

June 17/11

Sheet of

Outfitter Name:

White Pine Lodge

Destination Codes:
USC - Upstream of Chutes
DSC - Downstream of Chutes
DSTF - Downstream of Third Falls

Date Fished	# Anglers in Party	Destination Code	Target Species	Pike		Walleye		Brook Trout		Pics?	General Comments (size of catch, incidental species, etc.)
				Caught	Kept	Caught	Kept	Caught	Kept		
May 23	2	USC		2	0	16	8				Lost 100 grams
Jun 3	2	USC		0	0	12	8				Down River
Jun 7	2	USC		0	0	10	8				Down River

This survey is designed to improve the Ontario Ministry of Natural Resource's understanding of the usage of the Ivanhoe River in order to effectively review waterpower applications. If you have any questions or comments on this survey, please contact Chapleau District Ontario Ministry of Natural Resources at (705) 864-1710. Any information collected through this survey will be used for Ministry purposes and will not be distributed.

June 17/11

Sheet of

Outfitter Name:

White Pine Lodge

Destination Codes:
USC - Upstream of Chutes
DSC - Downstream of Chutes
DSTF - Downstream of Third Falls

Date Fished	# Anglers in Party	Destination Code	Target Species	Pike		Walleye		Brook Trout		Pics?	General Comments (size of catch, incidental species, etc.)
				Caught	Kept	Caught	Kept	Caught	Kept		
21/05/11	2	USC		2	0	4	4				fished in boat
22/05/11	2	USC				1	0				fished from shore
21/05/11	4	USC+DSC		0		3	3				Boat
22/05/11	2	USC		2	0	1					Shore Fished
22/05/11	1	USC		3	0	7	4				From Boat
22/05/11	1	USC		0	0	0	0				From Shore
May 22/11	1	USC		0	0	4	4				From Shore
May 24/11	3	USC		1	0	19	10				From Shore
May 24/11	2	USC		3	0	18	12				Down River

This survey is designed to improve the Ontario Ministry of Natural Resource's understanding of the usage of the Ivanhoe River in order to effectively review waterpower applications. If you have any questions or comments on this survey, please contact Chapleau District Ontario Ministry of Natural Resources at (705) 864-1710. Any information collected through this survey will be used for Ministry purposes and will not be distributed.

Ivanhoe River Usage Survey

In order for the Ontario Ministry of Natural Resources and Xeneca to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River. *Please deposit completed surveys in the comment box at the Chutes site.*

I visit the Ivanhoe River (check all that apply): <input type="checkbox"/> One time per year <input type="checkbox"/> Between 2 and 5 times per year <input type="checkbox"/> Between 6 and 10 times per year <input type="checkbox"/> More than 10 times per year <input type="checkbox"/> My visit was conducted through a local outfitter	My reason for visiting the Ivanhoe River includes (check all that apply): <input type="checkbox"/> General nature appreciation <input type="checkbox"/> To enjoy the falls <input type="checkbox"/> Picnicking <input type="checkbox"/> Camping <input type="checkbox"/> Fishing <input type="checkbox"/> Hunting <input type="checkbox"/> Other _____
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Additional Comments:

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will advise you of the results of our study.

Your comments can also be submitted via postal service by mailing this card to: Chapleau District MNR, 190 Cherry St., Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Kris Vascotto at (705) 864-3162.

Anglers! Please fill out the back of this form prior to placing in the comment box!

Ivanhoe River Usage Survey

In order for the Ontario Ministry of Natural Resources and Xeneca to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River. *Please deposit completed surveys in the comment box at the Chutes site.*

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Additional Comments:

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Anglers! Please fill out the back of this form prior to placing in the comment box!

Date: _____
Target Species: _____

Number Angling in Party: _____
Email Address (not required): _____

Location Angled	Species	Catch Description			Harvest Characteristics	
		Number Captured	Number Released	Number Harvested	< 46 cm (18.1")	> 46 cm (18.1")
Comments:						

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike - please identify any additional species captured

Date: _____
Target Species: _____

Number Angling in Party: _____

Location Angled	Species	Catch Description			Harvest Characteristics	
		Number Captured	Number Released	Number Harvested	< 46 cm (18.1")	> 46 cm (18.1")
Comments:						

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike - please identify any additional species captured

ATTENTION USERS OF THE IVANHOE RIVER

As a part of the Government of Ontario's initiative to support the development of renewable energy, an application from Xeneca Power Development Inc. (Xeneca) has been submitted to construct and operate a dam structure at both the "Chutes" and "Third Falls" sites on the Ivanhoe River (see map for locations).

In association with the application for approvals to develop these sites, Xeneca Power Development Inc. is undertaking an Environmental Assessment through the Ontario Waterpower Class Environmental Assessment (EA) process, which is intended to assess all of the social, economic, and environmental impacts and/or benefits of the project. Recently, public information centres have been held in Foleyet to introduce the project and solicit public feedback.

In order for the Ontario Ministry of Natural Resources and Xeneca to fully understand the impact of the proposed development on the fishery of the Ivanhoe River, it is imperative that information is collected on current usage of the fishery including species being angled, effort being allocated and levels of harvest. This information will inform both the Ministry and Xeneca of the current status of the resource and will help to ensure that this resource is maintained for all users into the future.

Please take the time to fill out a comment sheet describing your recreational experience during your visit to the Ivanhoe River. This information will be kept confidential and no personal details will be distributed. If you would like to be kept updated on this initiative, please include you email address and a comment requesting you be contacted, and we will advise you of the results of our study.

If you would like additional information on the proposed developments and/or would like to submit comments, please contact Xeneca Power Development at TELEPHONENUMBER or via email at EMAILADDRESS.

Should you have any questions regarding this study, please contact Dr. Kris Vascotto, biologist with Chapleau District Ontario Ministry of Natural Resources at (705) 864-3162 or via email at kris.vascotto@ontario.ca.

If you would like additional information on the Environmental Assessment Process, please contact the Ontario Ministry of the Environment at TELEPHONE NUMBER or via email at EMAILADDRESS.

Thank you very much for you cooperation!

July 4, 2011

Mr. Tim Mutter
District Planner – Chapleau District
Ministry of Natural Resources
190 Cherry Street
Chapleau ON P0M 1K0

Dear Tim:

Re: Xeneca Waterpower Project: The Chute, Ivanhoe – Timmins Meeting

We would like to thank you for arranging the meeting in Timmins with Agency staff on Wednesday, June 15, 2011 (the "Timmins Meeting") to discuss our project "The Chute". The meeting followed a teleconference on May 31, 2011 and a letter from Xeneca to MNR on June 6, 2011 (copy attached) which addressed various items that had arisen from the teleconference.

As you are aware, Xeneca is about to issue the EA report for The Chute very shortly. In preparation for this document release to the public, I would like to acknowledge and confirm the consensus reached with the MNR technical team at that meeting.

During the teleconference on May 31, 2011, MNR staff noted various items that needed clarification. Xeneca provided clarification in its letter dated June 6, 2011. At the meeting on June 15, 2011, the items were reviewed and discussed resulting in a better understanding by all present as to the adequacy of information. However, two items were noted that were of potential concern, these were:

- 1) **Inundation Extent:** The HEC-RAS inundation extent shows that the total inundation extent goes significantly further upstream than presented previously (about 6.4 km vs 2.8 km). It was discussed and agreed that the revised inundation extent be presented to the public and an enlarged field survey would be carried out this year. Xeneca has prepared a revised inundation poster to be displayed at an upcoming public information meeting on July 7, 2011. Updated inundation information will also be included in the EA report, to be released shortly. A copy of the updated map is attached. It clearly shows that the additional area of inundation is very narrow and largely contained in the existing river bed (for average flows) and within the existing flood plain during floods (for 1:100 year flood). It was also agreed that Xeneca's biological consultant would study the habitat in the additional area during the 2011 field season with special emphasis on a riffle area in the upstream end of the inundation area.
- 2) **Conservation Area:** The variable flow resulting from intermittent operation could extend into the Conservation Area located 43 km downstream of the project. It was discussed and agreed that Xeneca would commit to providing monthly Q80 flows at the boundary into the Conservation Area at all times, provided that the natural inflow into the project was at least Q80. During times when natural inflow into the project is less than Q80, Xeneca will provide not



less than 80% of the natural flow that would otherwise occur at the Conservation Area boundary. MNR staff confirmed that this would meet its criteria of providing adequate base flow in the Conservation Area and would alleviate the need for further study of environmental effects in the Conservation Area.

We note that the above is in addition to the commitments and clarifications regarding increased environmental flows provided in our letter of June 6, 2011. It is our understanding that the above forms a constructive consensus between MNR and Xeneca regarding The Chute project on the issues discussed.

We thank you for taking the time to review the large amount of technical documentation provided during the agency pre-consultation on this project and for the effort provided by your team during these discussion.

Please do not hesitate to follow up with me or our staff if you have any questions on the above.

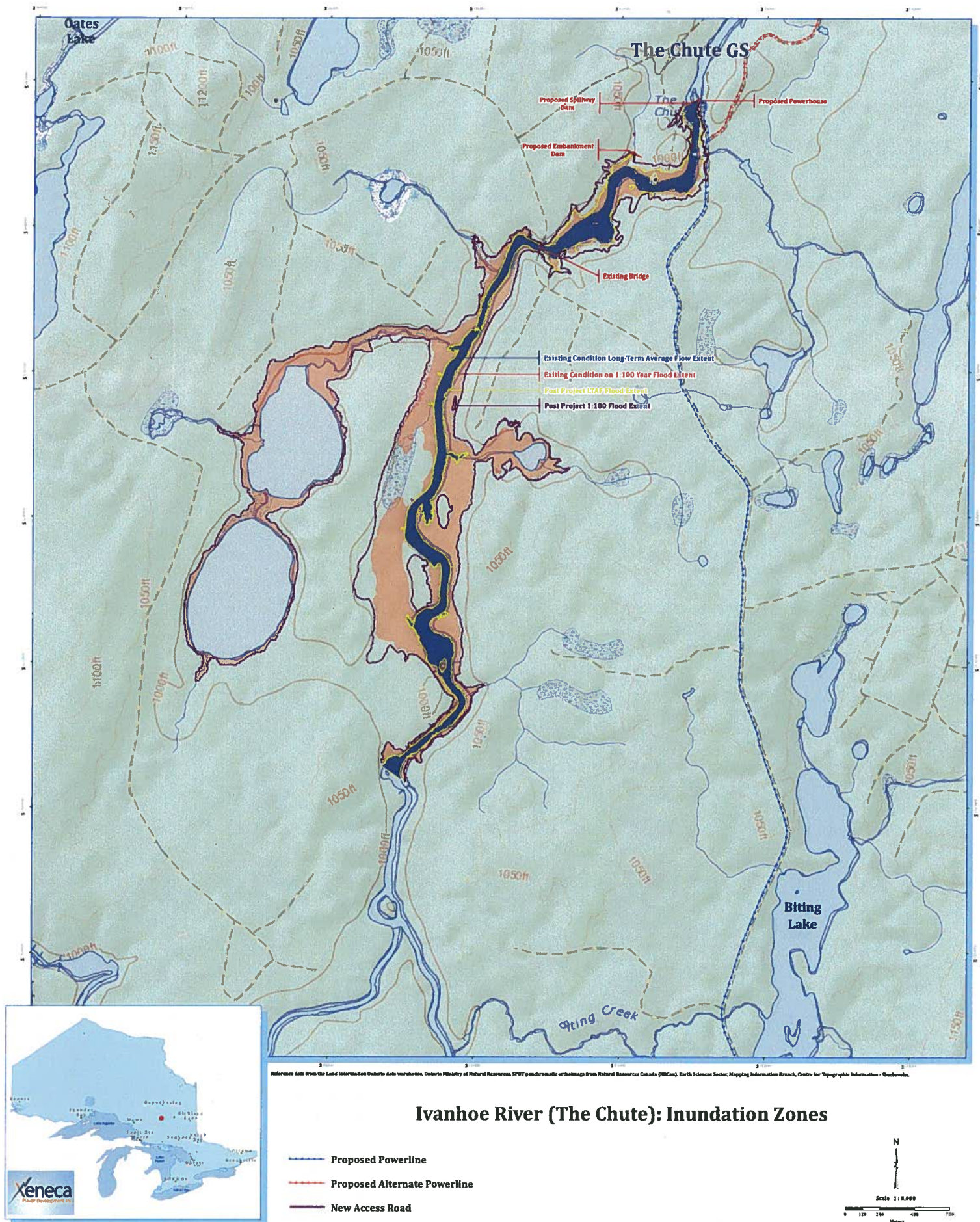
Yours truly,

A handwritten signature in black ink, appearing to read 'Uwe Roeper', with a stylized flourish at the end.

Uwe Roeper, M.Sc., P.Eng.
Chief Executive Officer

cc. Paula Allen, MOE - Paula.Allen@ontario.ca
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Inundation Area Map at Various Flows (Existing and Proposed)



Xeneca Letter to MNR

(June 6th 2011)

June 6, 2011

Tim Mutter
District Planner – Chapleau District
Ministry of Natural Resources
190 Cherry Street
Chapleau, ON P0M 1K0

Re: Xeneca Waterpower Project: The Chute, Ivanhoe – Pre-EA Consultation

Dear Tim:

We would like to thank you for arranging the conference with MNR staff on Tuesday, May 31, 2011 to discuss our project "The Chute". This letter is meant to clarify specific technical questions raised during the meeting related to environmental effects of modified run-of-river operation. It is my understanding that meeting notes will be sent out by our office under separate cover. The possibility of an in person meeting was also discussed. It is our expectation is that this letter might provide useful background for such a meeting.

Concern:

MNR staff expressed concern that modified run-of-river operation could result in a variety of possible impacts on the river habitat and on other users. Examples of concerns noted during the call included:

- Effects on effluent dilution at the town of Foleyet
- Effects on effluent dilution from Montcalm Mine
- Effects on fish resources and habitat, including the temporary dewatering of habitat, changing of the thermal regime in the river, disturbance of downstream habitat due to variable flow, rapid flow changes and changes to the sediment conditions in the river.

MNR staff further suggested that minimum environmental flows (Q_{EA}) need to be provided during times when the turbine is switched "off". To this end, MNR uses an internal guideline of monthly "Q80" flows (i.e. flow rates naturally exceeded 80% of the time calculated on a monthly basis and based on historic records) as an assessment benchmark below which significant impact could occur. It was noted that the pre-consultation draft of Xeneca's operations plan document ("Proposed Operating Flows and Levels, The Chute") proposes minimum flow values that are significantly lower than Q_{80} for much of the year. MNR suggested that Xeneca should raise the proposed values or provide substantial evidence that the values are defensible. A table with monthly and seasonal reference values is attached for convenience (see Attachment 1 - table excerpt from relevant Hydrology Report).

Response:

Xeneca appreciates MNR's concerns and would like to do what it can to address them. We believe the best way to do this is to provide additional information that can form the basis for arriving at operational parameters that address the concerns raised.

Foleyet Effluent Concern:

The upstream inundation extent up the river is approximately 6.4 km (including dynamic backwater effect). The effluent pond at Foleyet is located at approximately 19 km up the river. An effect on the effluent pond will not occur due to this project.

Downstream Variable Flow Reach:

The maximum headpond volume is approximately 275,000 m³ (assuming a 1 m maximum drawdown as per draft operating plan). In relation to the typical flows in the Ivanhoe River, this amount of storage is very small. At LTAF flow of 29.7 m³/s, the headpond provides storage for two hours of inflows (see Figure 6 in operations plan document). The maximum hours for which water can be stored at low flows (i.e. flows where intermittent operation would occur) is shown in the following table. It is noted that such low flows primarily occur in late summer and late winter and not during the sensitive spring spawning period.

Flow	Storage	
2 m ³ /s	40 hrs	
4 m ³ /s	20 hrs	
6 m ³ /s	12 hrs	~Q80 for August
8 m ³ /s	9 hrs	
10 m ³ /s	7 hrs	~min. turbine flow (~Q _{Tmin})

During the hours when the turbine is not operating, the water stored in the river channel downstream and the minimum environmental flow (Q_{EA}) must be adequate to protect the habitat conditions during the seven hours to 40 hours between operation events. One good indicator of habitat protection is the Wetted Perimeter ("WP") values calculated from HEC-RAS modeling.

The figure attached as Attachment 2, entitled "Chart 1: Ivanhoe – The Chute, Flow vs Wetted Perimeter" shows the WP at several downstream cross-sections. As is evident from the figure, the WP values decline gradually with a decrease in flow down to a range of 2 m³/s to 5 m³/s. Below these values, and depending on the cross-section chosen, the WP values drop rapidly. This information helps to provide some perspective on the flows required on sustained basis to maintain WP values (i.e. to keep the river habitat wet).

Another aspect to consider is that the river reach downstream is very flat, several metres deep and stores significant volumes of water. At a measured cross section downstream, the river is approximately 3 m deep, with a bottom (i.e. thalweg) elevation of approximately 284.1 m and a water surface at 287.2 m at LTAF (see Figure 9 in operations plan document). Additional cross-section data is attached in Attachment 3. The extent of the area of this flat river section is about 25 hectares. Water in this river reach drains slowly (even when the turbine is turned off). The following are some relevant downstream distances:

Next Riffle	37	km
Third Falls site	43	km
Montcalm Mine effluent	~70+	km

The total amount of storage in the headpond ($275,000 \text{ m}^3$) represents less than a 0.15 metre water level change in the 25 hectare area of the flat river section downstream (i.e. $0.15 \text{ m} \times 25 \text{ ha} = 375,000 \text{ m}^3$). In comparison to the three metre depth of the river channel, the expected change in river level due to intermittent operations is small.

Other Effects due to Variable Flow:

Effects of erosion and/or sediment transport due to variable flow and discharges cannot be ruled out. The draft operations plan limits the maximum flow and the ramp rates to minimize such impacts. Further to the concern expressed by the MNR, we have revisited the river morphology, flows and slope stability information.

The geology of the area is characterized by a blanket of fine sediments (silts and clays) overlying bedrock. Much of the thalweg erosion in the area is controlled by rock outcrops which form rapids at distant intervals along the river. In between these bedrock outcrops, much of the river bank area and river bottom appears to be in the fine sediments throughout the long, flat reaches of river that lie between rapids.

Due to the flat nature of the river, and the presence of periodic rock outcrops that control river slope, erosion of the river bed is primarily lateral (i.e. horizontal). Significant vertical erosion or deposition is not a large factor in this river.

The natural flow in the river ranges from $2 \text{ m}^3/\text{s}$ to $290 \text{ m}^3/\text{s}$. Most erosion and deposition activity is expected to occur above the LTAF of $29.7 \text{ m}^3/\text{s}$ when energy levels are high and inundation levels along the channel banks are above average. The flows associated with intermittent operation would range from $2 \text{ m}^3/\text{s}$ when the facility is not running to the limited turbine output of $24.7 \text{ m}^3/\text{s}$ (Q_{TL}) as shown in the draft operating plan document. The energy levels during these flows will be below average for the river and well within the established bank elevation for average flow. The amount of erosional activity at these flows is not expected to be significant.

Effects on Water Temperature:

Due to the small amount of storage in the headpond (a few hours at most flows), there is not enough residence time to significantly alter water temperatures. Further, any temporary storage would occur during nighttime hours when additional solar absorption is limited.

Third Falls Project:

Xeneca's proposed Third Falls project, if built, would further create an operating level inundation area that would reach to the downstream side of The Chute. This would further enlarge the extent of the area of the river reach downstream of The Chute (from 37 km to 43 km). In addition, the Third Falls project would create a backwater effect would prevent the downstream reach from draining. If this project would go forward, it would further prevent the draining of the river channel during the intermittent operation at The Chute. If this were to

occur, no further modeling work would be required. In this scenario, the downstream effect of intermittent operation at The Chute would be less than 0.15 m during any operating cycle.

Montcalm Mine:

We note that Montcalm Mine is located over 50 km downstream, after inflow of several tributaries on the Ivanhoe River and beyond the confluence with the much larger Groundhog River. This limits the influence that this project can have on the flows at the Montcalm Mine.

Due to the limited storage at The Chute, all inflow from upstream will be passed downstream within 48 hours. This implies that no sustained flow alteration will occur. Hence, the total flow of water available at Montcalm Mine over any week will not change.

The river reach over the entire 70 km stretch is largely flat, with some areas exhibiting oxbows and wetlands. This 70 km reach has significant storage, much larger than the available headpond storage.

Proposed Mitigation:

The section of river for the first 0.1 km immediately downstream of the proposed structure has been confirmed to be spawning habitat and provides the primary spawning spot for fish living in the reach from the site to the next riffle, located 37 km further downstream. Xeneca is committed to protecting this spawning area and helping to enhance it with rock material arising from construction as possible. Indeed, Xeneca believes it has identified one particular area on the east river bank immediately downstream of the site where an opportunity for enhancement may exist using rock material generated during construction.

1. To protect the spawning habitat, Xeneca's operating plan document proposes that no intermittent operation shall occur during the spring flow event between April 16th and June 1st. In addition, sufficient excess flow exists during much of this period to pass over the spillway.
2. We hereby revise the proposed draft values for flows as shown in the table below. The purpose of this revision is to preserve the good ecological functioning of the 0.1 km reach and habitat immediately downstream of the site.

	Previous OP Draft	Spring	Summer	Fall	Winter
Q_{EA}	downstream min. env. flow	Q_{Tmin}	0.5	0.5	0.5
Q_{COMP}	compensatory in bypass	1.0	0.5	0.5	0.5
	Now Proposed				
Q_{EA}	downstream min. env. flow	No Int. Op.	2.6	2.3	2.3
Q_{COMP}	compensatory in bypass	1.0+spillway	0.5	0.5	0.5

All flows values in m^3/s .

3. Over any 24 hour period, the facility will release the amount of water that would have passed naturally during such period. Xeneca believes that the short time interval between operational events will help to limit the amount of draining that will occur in the downstream reach.

4. The combination of natural storage in the downstream river reach, combined with the minimum environmental flow values (Q_{EA}) is believed to be adequate to maintain good ecological functioning of the habitat downstream.
5. Xeneca will monitor water levels and water temperature at a station within 600 metres downstream of the facility for the life of the project. Where a drop in water level indicates an adverse environmental effect, Xeneca will take corrective action by ceasing intermittent operation until conditions have recovered. The temperature data will be reviewed after years 1 and 5 of operation to assess if any significant change in water temperatures is apparent. If required, Xeneca will extend the monitoring or make corrective amendments to the operating plan.
6. Xeneca will monitor slope stability and erosion downstream in years 1 and 5 and compare the observations to pre-construction information. Where a significant effect is observed, further study or corrective action will be taken.

We hope that the above information will assist you in assessing the conditions relevant to this project. We trust the operational steps outlined above will achieve a satisfactory mitigation approach. It is our goal to work constructively with the MNR to find a strategy for this project that strikes a balance that allows renewable energy to be generated for Ontario's electricity grid in a manner that best achieves time of use generation, while minimizing impacts.

As noted during the conference call, we would welcome a meeting in person and I believe such a meeting date is already being planned. Please do not hesitate to follow up with me or our staff if you have any questions in the meantime.

Yours truly,



Uwe Roeper, M.Sc., P.Eng.
Chief Executive Officer

Attachments

Attachment 1 – Monthly and Seasonal Reference Values

4. Total Daily Average Flow Duration Curves

SAAS v2.1.1 has been used to generate flow duration curves using total daily flow for the entire period of record, for all four seasons and for all twelve months. These flow duration curves are shown in Figures 4 to 6, respectively.

The flow duration analysis results used to prepare Figures 4 to 6 are given in Tables 5 and 6.

Table 5 Total Daily Average Flow Duration Analysis for All Four Seasons and the Period of Record

Percent of Time Exceeded	Total Daily Average Flow (m ³ /s)				
	Winter	Spring	Summer	Fall	Period of Record
0.01	41.4	293	91.9	157	290
0.1	41.1	283	85.4	152	264
1	30.7	240	54.8	110	174
2	27.9	206	45.3	90.2	146
3	25.7	185	42.4	81.2	131
4	24.5	174	39.6	70.0	116
5	23.6	165	36.4	64.2	102
6	23.2	157	33.3	58.9	91.9
7	22.7	150	31.5	54.6	83.0
8	22.3	145	29.6	51.4	73.9
9	22.1	142	28.3	49.4	65.5
10	21.7	140	26.6	47.5	60.0
11	21.5	135	25.6	46.0	55.8
12	21.3	128	24.7	44.9	52.5
13	21.1	123	24.0	43.8	49.7
14	20.8	120	23.2	43.1	46.9
15	20.5	116	22.6	42.3	44.6
16	20.3	112	21.8	41.5	42.9
17	20.0	110	21.3	41.1	41.3
18	19.9	105	20.5	40.6	40.4
19	19.7	102	19.9	40.2	39.2
20	19.4	98.3	19.5	39.7	38.0
21	19.2	94.7	18.9	39.2	37.0
22	18.9	92.1	18.7	38.8	36.0
23	18.7	89.4	18.1	38.3	34.9
24	18.5	85.9	17.7	37.9	33.8
25	18.3	83.5	17.3	37.5	32.9
26	18.0	80.2	16.9	37.1	31.9
27	17.8	76.8	16.6	36.6	30.8
28	17.6	74.0	16.3	36.2	29.9
29	17.5	71.0	15.9	35.8	29.1
30	17.3	67.5	15.6	35.5	28.4
31	17.1	65.3	15.2	35.1	27.9
32	16.9	63.8	14.9	34.5	27.2
33	16.7	61.1	14.7	34.0	26.5
34	16.6	59.4	14.3	33.7	25.9
35	16.3	57.8	14.1	33.4	25.2
36	16.2	56.1	13.8	33.2	24.6
37	16.1	55.2	13.6	32.8	24.1
38	16.0	54.1	13.4	32.3	23.6

Percent of Time Exceeded	Total Daily Average Flow (m ³ /s)				
	Winter	Spring	Summer	Fall	Period of Record
39	15.8	53.0	13.1	31.8	23.1
40	15.7	51.9	12.9	31.4	22.7
41	15.5	50.7	12.6	30.9	22.2
42	15.3	49.3	12.3	30.5	21.8
43	15.2	47.9	12.2	30.0	21.4
44	15.0	46.7	11.9	29.6	21.0
45	14.9	45.0	11.7	29.2	20.6
46	14.8	43.9	11.6	28.8	20.2
47	14.6	42.9	11.4	28.6	19.9
48	14.5	41.6	11.1	28.4	19.6
49	14.3	40.5	11.0	28.1	19.2
50	14.1	39.5	10.8	27.9	18.9
51	14.0	38.8	10.6	27.6	18.5
52	13.8	37.4	10.4	27.4	18.2
53	13.6	36.5	10.2	27.1	17.9
54	13.5	35.4	10.0	26.9	17.6
55	13.4	34.4	9.86	26.5	17.2
56	13.2	33.3	9.70	26.2	16.9
57	13.1	32.1	9.49	25.9	16.6
58	13.0	31.2	9.30	25.5	16.3
59	12.8	30.1	9.10	25.2	16.0
60	12.7	29.5	8.92	24.8	15.8
61	12.5	29.0	8.78	24.5	15.4
62	12.4	28.1	8.66	24.2	15.2
63	12.3	27.4	8.53	23.9	14.9
64	12.2	26.8	8.34	23.6	14.7
65	12.1	25.9	8.17	23.4	14.3
66	12.0	25.1	7.98	23.2	14.1
67	11.9	24.5	7.77	22.9	13.8
68	11.7	24.0	7.61	22.7	13.5
69	11.6	23.3	7.46	22.4	13.2
70	11.5	22.3	7.28	22.1	12.9
71	11.4	21.7	7.01	21.8	12.6
72	11.3	20.5	6.81	21.5	12.4
73	11.1	19.8	6.60	21.2	12.2
74	11.0	19.4	6.44	20.9	11.9
75	10.8	18.8	6.23	20.6	11.7
76	10.7	18.3	6.03	20.3	11.5
77	10.6	17.9	5.86	20.0	11.3
78	10.5	17.2	5.70	19.7	11.0
79	10.3	16.9	5.49	19.5	10.7
80	10.2	16.4	5.36	19.2	10.5
81	10.0	16.0	5.25	18.9	10.2
82	9.94	15.5	5.13	18.6	9.98
83	9.83	15.0	4.98	18.3	9.74
84	9.70	14.7	4.89	18.1	9.49
85	9.58	14.4	4.75	17.9	9.25
86	9.47	14.0	4.66	17.5	8.97
87	9.37	13.5	4.57	16.9	8.70

Percent of Time Exceeded	Total Daily Average Flow (m ³ /s)				
	Winter	Spring	Summer	Fall	Period of Record
88	9.25	13.1	4.43	16.3	8.46
89	9.13	12.7	4.28	16.0	8.19
90	9.01	12.3	4.14	15.4	7.81
91	8.85	12.0	4.05	15.0	7.39
92	8.68	11.8	3.84	14.5	6.76
93	8.52	11.4	3.67	13.8	6.22
94	8.38	11.1	3.45	12.2	5.62
95	8.30	10.7	3.24	10.9	5.22
96	8.13	10.4	2.98	9.10	4.82
97	7.88	9.99	2.73	7.72	4.40
98	7.41	9.40	2.53	5.62	3.83
99	6.68	8.38	2.29	5.15	2.97
99.9	5.41	6.59	1.72	4.30	2.02

Table 6 Total Daily Average Flow Duration Analysis for All Twelve Months of the Year

Percent of Time Exceeded	Total Daily Average Flow (m ³ /s)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.01	41.4	23.8	41.1	285	293	142	91.9	65.4	39.6	157	137	138
0.1	41.3	23.8	40.9	284	290	141	91.8	63.3	39.6	157	137	137
1	34.0	22.1	34.8	262	223	97.6	72.3	44.7	36.8	132	90.3	99.0
2	30.5	21.2	27.3	241	201	79.3	59.5	41.7	32.7	106	82.8	69.5
3	28.6	20.8	25.7	235	188	73.6	51.8	35.2	29.7	94.3	75.0	52.3
4	27.8	20.4	24.9	213	179	66.9	48.5	31.6	26.4	88.5	67.2	49.4
5	26.6	20.2	22.6	191	175	64.7	45.2	28.2	24.8	82.2	62.8	47.0
6	25.2	20.0	21.8	183	170	61.7	44.4	25.5	23.6	74.8	59.6	45.9
7	24.7	19.9	21.5	172	164	59.5	42.4	24.5	22.7	68.1	57.3	44.7
8	24.3	19.8	21.1	166	160	58.0	41.0	24.1	21.2	64.3	55.1	43.8
9	24.0	19.7	20.5	159	156	56.6	40.2	23.5	20.0	60.1	53.5	43.2
10	23.6	19.4	19.2	151	152	56.0	37.9	22.9	19.3	53.3	51.7	42.9
11	23.4	19.3	18.7	147	149	55.3	36.4	22.3	18.7	51.1	50.1	42.2
12	23.2	19.0	18.4	145	147	54.3	35.6	21.8	18.1	49.2	47.8	41.5
13	23.0	18.7	18.0	143	144	53.4	33.1	21.3	17.6	47.6	46.2	41.3
14	22.8	18.3	17.6	141	140	52.5	32.0	20.5	17.2	46.0	45.1	41.1
15	22.7	18.0	17.4	140	137	52.0	30.9	20.0	16.9	45.3	43.8	41.0
16	22.5	17.8	16.9	138	135	51.3	29.7	19.5	16.3	43.7	43.3	40.6
17	22.4	17.5	16.3	131	131	50.6	29.4	18.9	15.6	42.6	42.3	40.5
18	22.2	17.3	16.0	124	128	49.9	28.9	18.6	15.2	41.7	41.1	40.3
19	22.1	17.1	15.8	121	124	48.7	28.3	18.0	15.0	40.8	40.4	39.7
20	21.9	17.0	15.4	116	123	47.2	26.9	17.6	14.8	39.8	39.9	39.5
21	21.8	16.8	15.1	114	121	46.5	26.2	16.9	14.5	38.9	39.1	39.3
22	21.6	16.7	14.9	110	120	45.3	25.9	16.8	14.1	38.3	38.4	39.1
23	21.5	16.6	14.7	105	119	44.8	25.2	16.5	13.9	37.6	38.0	38.8
24	21.5	16.4	14.4	99.7	116	43.9	24.6	16.3	13.5	36.7	37.5	38.5
25	21.3	16.3	14.3	96.2	113	43.4	24.0	16.0	13.1	36.0	37.0	38.1
26	21.2	16.2	14.0	93.7	112	42.0	23.3	15.7	13.0	35.6	36.6	37.9
27	21.1	16.2	13.9	91.1	111	41.2	22.8	15.5	12.7	34.8	36.4	37.7

Percent of Time Exceeded	Total Daily Average Flow (m ³ /s)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
28	21.0	16.0	13.7	87.0	109	40.5	22.1	15.2	12.3	34.0	36.1	37.4
29	20.8	15.9	13.5	84.3	107	39.6	21.6	15.0	12.2	33.7	35.8	37.2
30	20.7	15.8	13.5	82.0	105	39.0	21.3	14.8	11.9	33.5	35.6	37.0
31	20.6	15.6	13.4	76.9	103	37.9	20.7	14.7	11.7	33.2	35.5	36.4
32	20.5	15.5	13.2	74.3	102	37.3	20.0	14.2	11.5	32.7	35.3	36.0
33	20.3	15.4	13.0	68.8	101	36.9	19.7	13.9	11.4	32.4	34.8	35.4
34	20.2	15.3	12.9	63.9	98.8	36.3	19.4	13.8	11.0	32.0	34.4	34.7
35	20.0	15.2	12.8	59.8	96.5	35.4	19.1	13.6	10.9	31.4	34.1	34.3
36	19.9	15.2	12.6	56.3	94.7	34.8	18.8	13.5	10.7	30.6	33.8	33.9
37	19.7	15.0	12.5	54.0	92.6	34.3	18.5	13.3	10.6	30.4	33.6	33.6
38	19.6	14.9	12.5	52.3	91.9	33.4	18.1	13.1	10.5	30.0	33.3	33.3
39	19.5	14.9	12.4	49.7	90.4	32.7	17.7	12.9	10.2	29.3	33.0	33.0
40	19.3	14.7	12.3	45.1	89.4	31.7	17.3	12.6	9.96	28.9	32.8	32.3
41	19.2	14.5	12.2	43.7	86.6	31.3	17.1	12.5	9.81	28.6	32.3	32.0
42	19.0	14.3	12.1	41.5	85.6	30.8	16.7	12.3	9.67	28.3	31.3	31.7
43	18.9	14.1	12.1	40.2	84.1	30.1	16.5	12.0	9.38	28.0	30.6	31.5
44	18.7	13.9	12.0	39.3	82.8	29.8	16.1	11.8	9.15	27.7	30.0	31.1
45	18.6	13.7	11.9	37.5	80.1	29.5	15.8	11.7	8.98	27.4	29.7	30.9
46	18.5	13.6	11.9	34.6	78.3	29.3	15.3	11.5	8.81	27.1	29.1	30.5
47	18.3	13.4	11.7	33.2	76.0	29.0	14.8	11.3	8.71	26.8	28.8	30.1
48	18.2	13.3	11.7	32.3	74.2	28.4	14.4	11.1	8.61	26.2	28.5	29.7
49	18.0	13.1	11.6	30.9	72.5	28.0	14.1	10.9	8.49	25.9	28.2	29.4
50	17.8	13.1	11.6	29.3	71.1	27.5	14.0	10.8	8.19	25.6	27.9	29.1
51	17.7	13.0	11.5	28.0	69.8	27.2	13.7	10.7	8.01	25.4	27.7	28.8
52	17.6	12.8	11.4	27.4	68.8	26.3	13.6	10.5	7.78	24.9	27.6	28.7
53	17.5	12.7	11.3	26.5	67.3	26.0	13.3	10.3	7.59	24.6	27.1	28.5
54	17.4	12.6	11.2	25.6	65.8	25.6	13.0	10.2	7.48	24.2	26.8	28.3
55	17.3	12.5	11.1	24.8	64.5	25.1	12.5	9.99	7.12	24.0	26.4	28.2
56	17.2	12.4	10.9	24.4	63.6	24.7	12.3	9.85	6.82	23.7	26.1	27.9
57	17.1	12.3	10.7	24.2	62.3	24.2	12.1	9.67	6.61	23.2	25.7	27.7
58	16.9	12.1	10.6	23.3	60.7	23.7	11.9	9.53	6.55	22.3	25.0	27.4
59	16.8	12.1	10.5	22.3	59.3	23.1	11.8	9.39	6.45	21.8	24.7	27.3
60	16.7	12.0	10.4	21.6	58.0	22.5	11.6	9.24	6.29	21.2	24.4	27.2
61	16.6	11.9	10.2	19.7	56.4	21.7	11.5	9.07	6.15	20.9	24.3	26.9
62	16.4	11.8	10.1	19.3	55.7	21.1	11.2	8.89	5.96	20.6	24.0	26.9
63	16.3	11.7	10.1	18.5	55.0	20.5	11.0	8.73	5.89	20.4	23.6	26.6
64	16.1	11.6	9.99	18.2	54.1	20.1	10.8	8.58	5.80	20.1	23.2	26.2
65	16.1	11.5	9.96	17.8	52.9	19.7	10.5	8.45	5.61	19.6	23.0	26.0
66	16.0	11.4	9.89	17.2	51.8	19.5	10.2	8.25	5.47	19.4	22.5	25.7
67	15.9	11.3	9.82	17.0	50.2	19.2	10.0	8.06	5.34	19.1	22.1	25.4
68	15.8	11.1	9.74	16.6	49.1	18.8	9.87	7.86	5.27	18.8	21.7	25.0
69	15.7	11.0	9.68	16.3	48.4	18.2	9.67	7.72	5.16	18.4	21.4	24.8
70	15.5	11.0	9.63	16.2	47.2	18.0	9.46	7.65	5.07	18.2	21.1	24.5
71	15.4	10.9	9.55	15.7	46.4	17.6	9.26	7.44	4.96	18.0	20.9	24.0
72	15.2	10.8	9.49	15.3	44.2	17.2	8.94	7.25	4.91	17.8	20.7	23.7
73	15.0	10.8	9.45	15.0	43.5	16.9	8.86	6.98	4.82	17.7	20.5	23.6
74	15.0	10.7	9.39	14.8	42.0	16.4	8.74	6.79	4.71	17.2	20.3	23.5
75	14.8	10.6	9.35	14.5	40.9	16.2	8.60	6.52	4.67	17.1	20.1	23.4
76	14.7	10.5	9.28	14.2	40.0	15.9	8.48	6.42	4.60	16.8	20.0	23.2

Percent of Time Exceeded	Total Daily Average Flow (m ³ /s)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
77	14.6	10.4	9.22	14.0	38.6	15.4	8.28	6.23	4.56	16.6	19.7	23.1
78	14.5	10.4	9.13	13.6	37.8	15.1	8.11	6.03	4.50	16.4	19.6	22.9
79	14.4	10.2	9.04	13.3	36.6	14.9	7.95	5.84	4.43	16.2	19.2	22.8
80	14.2	10.1	8.98	12.9	35.6	14.7	7.73	5.75	4.35	16.1	19.0	22.7
81	14.1	10.0	8.88	12.7	34.4	14.7	7.51	5.55	4.26	15.8	18.9	22.6
82	13.9	9.88	8.78	12.5	32.3	14.3	7.40	5.43	4.16	15.4	18.7	22.5
83	13.8	9.79	8.66	12.2	31.4	14.1	7.28	5.26	4.09	15.2	18.6	22.3
84	13.7	9.69	8.59	12.0	29.8	13.7	7.04	5.17	4.00	15.1	18.3	22.1
85	13.4	9.55	8.47	11.8	28.8	13.5	6.86	4.98	3.87	14.8	18.2	22.0
86	13.3	9.42	8.41	11.6	27.3	13.2	6.70	4.87	3.69	14.5	18.1	21.8
87	13.2	9.32	8.37	11.4	26.7	12.9	6.24	4.78	3.56	14.2	18.0	21.7
88	13.0	9.20	8.33	11.2	25.1	12.5	5.88	4.68	3.42	13.3	17.8	21.5
89	12.9	9.13	8.29	11.0	24.0	12.3	5.63	4.46	3.33	11.8	17.1	21.1
90	12.6	9.04	8.16	10.7	23.1	12.1	5.39	4.19	3.26	11.1	16.5	20.6
91	12.5	8.91	7.94	10.5	21.8	12.0	5.31	4.00	3.16	9.55	16.0	20.2
92	12.3	8.79	7.88	10.4	20.5	11.8	5.01	3.79	3.03	9.16	15.6	19.7
93	12.0	8.69	7.71	10.3	19.8	11.6	4.94	3.68	2.85	8.41	14.9	19.5
94	11.7	8.61	7.44	10.0	18.9	11.3	4.70	3.51	2.77	7.99	14.6	18.9
95	11.3	8.44	7.16	9.57	18.2	11.0	4.61	3.26	2.72	7.46	14.3	18.4
96	10.9	8.34	6.88	9.07	17.1	10.7	4.40	2.77	2.54	6.29	8.48	13.2
97	10.6	8.24	6.71	8.54	15.9	10.3	4.16	2.60	2.32	5.44	6.00	12.6
98	10.4	8.16	6.61	7.84	12.9	9.76	4.11	2.52	2.27	5.10	5.47	11.9
99	9.96	7.93	5.82	7.42	10.3	9.14	3.77	2.35	1.95	4.81	5.15	11.3
99.9	9.42	7.64	5.36	6.38	7.09	8.38	2.85	1.95	1.71	4.26	5.00	9.23
99.99	9.37	7.61	5.35	6.37	7.08	8.36	2.80	1.92	1.71	4.25	4.99	9.12

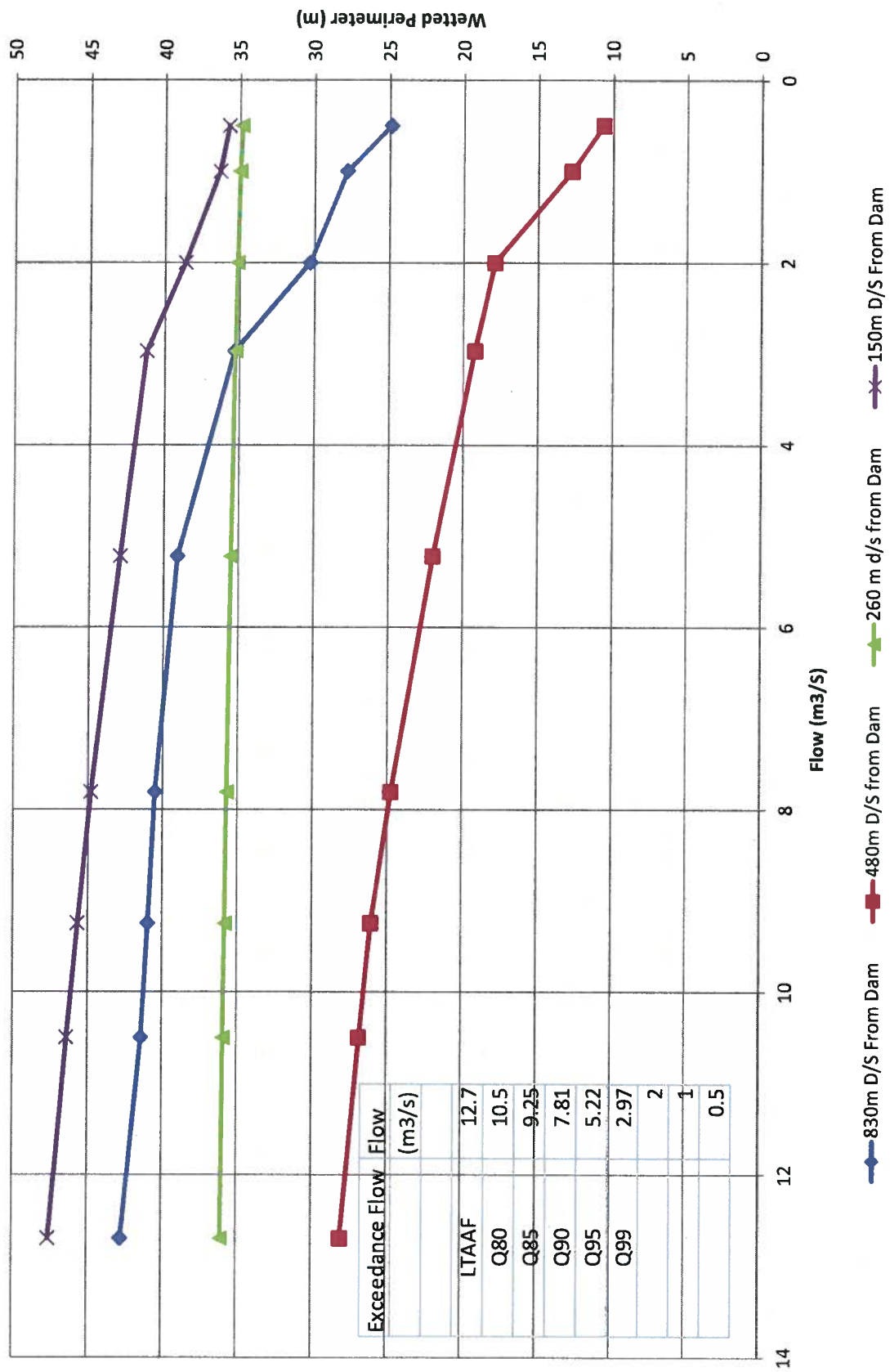
5. Daily Average Baseflow Flow Duration Curves

SAAS v2.1.1 separates baseflow using a recursive digital filtering procedure. The resulting daily average baseflow series is tabulated by SAAS and has been used to generate baseflow flow duration curves for the entire period of record, for all four seasons and for all twelve months. These baseflow flow duration curves are shown in Figures 7 to 9, respectively.

The flow duration analysis results used to prepare Figures 7 to 9 are given in Tables 7 and 8.

Attachment 2 – Ivanhoe – The Chute – Flow vs Wetted Perimeter

Chart1 : Ivanhoe - The Chute
Flow Vs Wetted Perimeter



Attachment 3 – HEC-RAS Plan: Env. Locations

HEC-RAS Plan: Env Locations: User Defined

River	Reach	River Sta	Profile	Q Channel (m3/s)	Top Width (m)	Vel Total (m/s)	W.P. Total (m)	Hydr Depth (m)	Flow Area (m2)	W.S. Elev (m)
IVANHOE	CHUTE	102	LTAvg Aug Flow	12.70	42.74	0.32	43.35	0.94	40.11	285.56
IVANHOE	CHUTE	102	Q80 (10.5 CMS)	10.50	41.41	0.30	41.88	0.85	35.28	285.45
IVANHOE	CHUTE	102	Q85 (9.25 CMS)	9.25	40.98	0.28	41.42	0.79	32.57	285.38
IVANHOE	CHUTE	102	Q90 (7.81 CMS)	7.81	40.52	0.27	40.91	0.72	29.28	285.30
IVANHOE	CHUTE	102	Q95 (5.22 CMS)	5.22	39.09	0.23	39.38	0.58	22.63	285.13
IVANHOE	CHUTE	102	Q99 (2.97 CMS)	2.97	35.32	0.19	35.47	0.44	15.48	284.94
IVANHOE	CHUTE	102	2 CMS	2.00	30.29	0.17	30.40	0.38	11.49	284.82
IVANHOE	CHUTE	102	1 CMS	1.00	27.83	0.14	27.91	0.26	7.32	284.68
IVANHOE	CHUTE	102	0.5 CMS	0.50	24.87	0.11	24.93	0.19	4.62	284.58
IVANHOE	CHUTE	105	LTAvg Aug Flow	12.70	28.07	1.65	28.40	0.27	7.68	285.85
IVANHOE	CHUTE	105	Q80 (10.5 CMS)	10.50	26.83	1.58	27.13	0.25	6.66	285.82
IVANHOE	CHUTE	105	Q85 (9.25 CMS)	9.25	26.07	1.53	26.35	0.23	6.05	285.79
IVANHOE	CHUTE	105	Q90 (7.81 CMS)	7.81	24.76	1.46	25.01	0.22	5.34	285.77
IVANHOE	CHUTE	105	Q95 (5.22 CMS)	5.22	22.00	1.34	22.21	0.18	3.90	285.70
IVANHOE	CHUTE	105	Q99 (2.97 CMS)	2.97	19.21	1.16	19.36	0.13	2.56	285.64
IVANHOE	CHUTE	105	2 CMS	2.00	17.89	1.04	17.99	0.11	1.93	285.60
IVANHOE	CHUTE	105	1 CMS	1.00	12.76	0.93	12.81	0.08	1.08	285.55
IVANHOE	CHUTE	105	0.5 CMS	0.50	10.64	0.78	10.66	0.06	0.64	285.51
IVANHOE	CHUTE	108	LTAvg Aug Flow	12.70	36.06	0.20	38.53	1.74	62.74	286.02
IVANHOE	CHUTE	108	Q80 (10.5 CMS)	10.50	35.92	0.17	38.35	1.69	60.79	285.97
IVANHOE	CHUTE	108	Q85 (9.25 CMS)	9.25	35.83	0.16	38.24	1.66	59.60	285.93
IVANHOE	CHUTE	108	Q90 (7.81 CMS)	7.81	35.73	0.13	38.10	1.63	58.14	285.89
IVANHOE	CHUTE	108	Q95 (5.22 CMS)	5.22	35.51	0.09	37.71	1.55	55.13	285.81
IVANHOE	CHUTE	108	Q99 (2.97 CMS)	2.97	35.27	0.06	37.24	1.47	51.88	285.72
IVANHOE	CHUTE	108	2 CMS	2.00	35.15	0.04	37.02	1.43	50.13	285.67
IVANHOE	CHUTE	108	1 CMS	1.00	34.99	0.02	36.81	1.36	47.69	285.60
IVANHOE	CHUTE	108	0.5 CMS	0.50	34.88	0.01	36.65	1.32	45.89	285.54
IVANHOE	CHUTE	200	LTAvg Aug Flow	12.70	47.57	0.49	50.65	0.55	26.17	286.35
IVANHOE	CHUTE	200	Q80 (10.5 CMS)	10.50	46.39	0.43	49.28	0.52	24.28	286.31
IVANHOE	CHUTE	200	Q85 (9.25 CMS)	9.25	45.68	0.40	48.45	0.51	23.16	286.29
IVANHOE	CHUTE	200	Q90 (7.81 CMS)	7.81	44.81	0.36	47.42	0.49	21.79	286.26
IVANHOE	CHUTE	200	Q95 (5.22 CMS)	5.22	42.93	0.27	45.25	0.45	19.14	286.20
IVANHOE	CHUTE	200	Q99 (2.97 CMS)	2.97	41.22	0.18	43.24	0.40	16.49	286.13
IVANHOE	CHUTE	200	2 CMS	2.00	38.64	0.13	40.52	0.39	15.20	286.10
IVANHOE	CHUTE	200	1 CMS	1.00	36.35	0.07	38.06	0.38	13.76	286.06
IVANHOE	CHUTE	200	0.5 CMS	0.50	35.73	0.04	37.35	0.36	12.93	286.04

Pilar DePedro

From: Vascotto, Kris (MNR) [Kris.Vascotto@ontario.ca]
Sent: July-13-11 1:51 PM
To: Ed Laratta; Pilar DePedro; Dave Green
Subject: FW: Ivanhoe River Comment Sheets/Creel Survey
Attachments: Third Falls_July 12 2011.pdf; White Pine Data Sheets July 12 2011.pdf

Hi Folks – first one didn't go through (too big) – will break down into two emails.....

Cheers,

kris

From: Vascotto, Kris (MNR)
Sent: Wednesday, July 13, 2011 1:49 PM
To: 'Ed Laratta'; 'Pilar DePedro'; 'Dave Green'
Cc: Dosser, Sandra (MNR); Deyne, Greg (MNR); Mutter, Tim (MNR); Guthrie, Bill (MNR)
Subject: Ivanhoe River Comment Sheets/Creel Survey

Hi Folks,

We did a survey pickup yesterday, and wanted to send around the info ASAP – this was the first pickup since the June 27th run, and we were able to access both sites alongside the creel sheets from White Pine.

Overall – activity at both sites seems to be increasing. We collected 18 responses from the Chutes, and 5 from Third Falls. Not all sheets had fisheries numbers, but there was a fair amount of information on usage (i.e. activity) and frequency of visitation. It appears that usage of the area is highest in summer, which may inform any proposed operating plan that is to be developed by Xeneca.

Fish yields as the Chutes was, as expected, quite high – 95 walleye were recorded as being pulled through White Pine – that is a lot of fish (and effort).

Also – I got talking to a camper at the Chutes site – apparently the site is fairly heavily accessed in the river as well as anglers head down river on skidoos to fish through the ice for walleye – not exactly my cup of tea (I stay away from moving water in the winter!) – but the impact of peaking activity on the safety of this downstream section will have to be considered.

I've attached all the scanned data sheets as opposed to the interpreted versions – I know it is crunch time for the ER, and wanted to get this to you as early as possible for your consideration.

We plan to revisit both sites and restock prior to the Long Weekend – we'll keep you posted.

Cheers,

Kris

*Kris Vascotto, Ph.D.
Biologist – Chapleau District
Tel. (705) 864-3162*

Date: May 9 June 4 Spring

[illegible]

Notes. Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

Please deposit completed surveys in the comment box at the Chutes or Third Falls etc.

My reason for visiting the Ivroine River includes (check all that apply):

- ☐ One time per year
- ☐ Between 2 and 5 times per year
- ☒ Between 6 and 10 times per year
- ☐ More than 10 times per year

My visit was conducted through a local outfitter ☐

Number in Party 2

Additional Comments: Just like an spring good fishing here
for lake also

My reason for visiting the Ivroine River includes (check all that apply):

- ☐ General nature appreciation
- ☐ To enjoy the falls
- ☐ Picknicking
- ☒ Camping
- ☒ Fishing
- ☐ Hunting
- ☐ Other Camping told weekend

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will advise you of the results of our study. Your comments can also be submitted via postal service by mail, this can be found on the back of the card.

Anglers! Please fill out the back of this form prior to placing in the comment box!
Vascotto at (705) 864-3162.

[illegible]

Species: BT = brook trout W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

In order for the Ontario Ministry of Natural Resources and Keneca to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River. Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

visit the Ivanhoe River (check all that apply).

One time per year

☒ Between 2 and 5 times per year

Between 6 and 10 times per year

More than 10 times per year

My visit was conducted through a local outfitter

— my visit was conducted through a local outfitter

[illegible]

Number in family 5 or more 6-8 Other Key clicking

Additional Comments: 7 covered lanes 101316 +

The Chittagong - I - Landed from 101-Bridge To

2/2/2019, came water levels nice

If you would like to be kept updated on this Initiative, please include your email address and a comment

Your comments can also be submitted via postal service by mailing this card to Chapleau District MINR, 190 Cherry St., Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Kris Veenendaal at (705) 894-9400.

Anglers! Please fill out the back of this form prior to placing in the comment box!

Date: June 17/11 Number Angling in Party: 2

Target Species:		Catch Description		Harvest Characteristics	
Location Angled	Species	Number Captured	Number Released	Number Harvested	< 46 cm (18.1")
<u>Delella</u>	<u>walleye</u>	<u>3</u>	<u>3</u>	<u>0</u>	<u>3</u>
	<u>pike</u>	<u>2</u>	<u>2</u>	<u>0</u>	<u>2</u>
Comments: <u>water high for time of year</u>					

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Ximnesto to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River. Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

I visit the Ivanhoe River (check all that apply):

One time per year ☐ Between 2 and 5 times per year ☐ Between 6 and 10 times per year ☒ More than 10 times per year ☐ My visit was conducted through a local outfitter ☐ Number in Party 2

My reason for visiting the Ivanhoe River includes (check all that apply):

☒ General nature appreciation ☐ To enjoy the falls ☐ Picnicking ☐ Camping ☒ Fishing ☒ Hunting ☐ Other

Additional Comments:

I have been fishing & enjoying this river for 20 years plus. Let my grandchildren enjoy too!

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will advise you of the results of our study. Your comments can also be submitted via postal service by mailing this card to: Chapleau District MNR, 190 Cherry St., Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Kris Wedemeyer at (705) 864-3162.

Anglers! Please fill out the back of this form prior to placing in the comment box!

Date: JUNE 18 - 2011 Number Angling in Party: 2

Target Species: <u>Walleye</u>		Catch Description		Harvest Characteristics	
Location Angled	Species	Number Captured	Number Released	Number Harvested	Length (cm) > 46 cm (18.1")
<u>Chutes site</u>	<u>Walleye</u>	<u>6</u>	<u>9</u>	<u>2</u>	<u>15-16"</u>
Comments: <u>Leave this river alone so our future generations can enjoy it also</u>					

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Xenical to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River.

Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

I visit the Ivanhoe River (check all that apply):

☐ One time per year

☐ Between 2 and 5 times per year

☐ Between 6 and 10 times per year

☐ More than 10 times per year

☒ My visit was conducted through a local outfitter

2 Number in Party

My reason for visiting the Ivanhoe River includes (check all that apply):

☒ General nature appreciation

☒ To enjoy the falls

☒ Picnicking

☒ Camping

☒ Fishing

☒ Hunting

☐ Other _____

Additional Comments:

This is one of the most beautiful rivers that I have ever seen. It was 100 yrs ago. Leave it like that.

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will send you the results of our study.

Your comments can also be submitted via postal service by mailing this card to: Chapleau District MNR, 190 Cherry St., Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Kris Vasco at (705) 864-3182.

Angler(s) Please fill out the back of this form prior to placing in the comment box

Date: JUNE 29/2011 Number Angling in Party: 3

Target Species: PICKEREL

Location Angled	Species	Catch Description		Harvest Characteristics	
		Number Captured	Number Released	Number Harvested	Number > 46 cm (18.1")
<u>DE LAKE</u>	<u>PICKEREL</u>	<u>4</u>	<u>3</u>	<u>1</u>	<u>1</u>
<u>RIVER 100m downstream</u>	<u>PICKEREL</u>	<u>6</u>	<u>1</u>	<u>5</u>	<u>4</u>
Comments:					

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Xosha to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River.

Please deposit completed surveys in the comment box at the Chutes or Third Falls area.

I visit the Ivanhoe River (check all that apply):	My reason for visiting the Ivanhoe River includes (check all that apply):
<input type="checkbox"/> One time per year	<input type="checkbox"/> General nature appreciation
<input type="checkbox"/> Between 2 and 5 times per year	<input type="checkbox"/> To enjoy the falls
<input type="checkbox"/> Between 6 and 10 times per year	<input type="checkbox"/> Picnicking
<input type="checkbox"/> More than 10 times per year	<input type="checkbox"/> Camping
<input type="checkbox"/> My visit was conducted through a local outfitter	<input type="checkbox"/> Fishing
<input type="checkbox"/> Number in Party _____	<input type="checkbox"/> Hunting
	<input type="checkbox"/> Other _____
Additional Comments:	

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be included. We will advise you of the results of our study.

Your comments can also be submitted via postal mail by mailing this card to: Chapleau District MNR, 190 Cherry St., Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Kris Vascotto at (705) 864-3162.

Anglers! Please fill out the back of this form prior to placing in the comment box!

Date: 06/30/11
Target Species: Hickory

Number Angling in Party: 3

[illegible]

Notes. Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Forestry to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River. Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

visit the Ivanhoe River (check all that apply).

Please deposit completed survey
I visit the Ivanhoe River (check all that apply):

_____ One time per year

Return 2 and 5 (Name) _____ all that apply):

Between 2 and 5 times per year

Between 6 and 10 times per year

More than 10 times per year

My visit was conducted through a local outfitter

Number in Party

Additional Comments:

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will advise you of the results of our study. Your comments can also be submitted via postal service by mail to the following address:

Cherry St., Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Kris Vascotto at (705) 864-3162.

Anglers: Please fill out the back of this form prior to placing in the comment box!

Date: July 7/2011
Target Species: _____

[illegible]

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Xenceta to fully understand the impacts/benefits of the proposed hydroelectric developments on the Vainho River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Vainho River. Please deposit completed surveys in the comment box at the *Chutes or Third Falls* site.

I visit the Ivanhoe River (check all that apply):

- ☒ One time per year
☐ Between 2 and 5 times per year
☐ Between 6 and 10 times per year
☐ More than 10 times per year
 My visit was conducted through a local outfitter
☒ Camping
☐ Fishing
☐ Hunting
☐ Other _____
 Number in Party _____

Additional Comments:

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will advise you of the results of our study.

your comments can also be submitted via postal service by mailing this card to: Chapeau District MNR, 180 Cherry St., Chapeau, ON, P0M 1K0. If you would like to speak to someone about this survey please call Dr. Kris Vascotto at (705) 864-3162.

Anglers! Please fill out the back of this form prior to placing in the comment box!

Date: July 13-11

Target Species: _____

Number Angling in Party: _____

Email Address (not required): _____

Location Angled	Species	Catch Description		Harvest Characteristics	
		Number Captured	Number Released	Number Harvested	< 46 cm (18.1") > 46 cm (18.1")
SOE	W	16	20	4	✓
ORTS S&S	W	16	20	4	✓
CHUTES	W	16	20	4	✓
Comments:					

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information.

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Xerexa to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River. Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

My reason for visiting the Ivanhoe River includes (check all that apply):

☐ One time per year

☐ Between 2 and 5 times per year

☒ Between 6 and 10 times per year

☐ More than 10 times per year

☐ My visit was conducted through a local outfitter

☒ Number in Party

My reason for visiting the Ivanhoe River includes (check all that apply):

☐ General nature appreciation

☒ To enjoy the falls

☐ Picnicking

☐ Camping

☐ Fishing

☐ Hunting

☒ Other: SPIRITUAL

Additional Comments:

HAVE CAMED AND FISHED HERE WITH MY PARENTS AND NOW I DO THE SAME WITH MY KIDS, AND HOPEFULLY THEY CAN DO IT WITH THEIR KIDS + SO ON...

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will advise you of the results of our study.

Your comments can also be submitted via postal service by mailing this card to: Chapleau District MNR, 100 Cherry St. Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Kris Vasco at (705) 864-3162.

Anglers! Please fill out the back of this form prior to placing in the comment box

Number Angling in Party: _____

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species. BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Xeneca to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River.

Please deposit completed surveys in the comment box at the Chutes or Third Falls site

My reason for visiting the Nanhoo River includes (check all that apply):

_____ General nature appreciation

_____ To see the falls

_____ Paddling

_____ Camping

_____ Fishing

_____ Hunting

_____ Other _____

My visit was conducted through a local outfitter _____

Number in Party 6

Additional Comments:

Additional Comments: why mess w/ good things
For your personal gain

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted.

Your comments can also be submitted via postal service by mailing this card to: Chapleau District MNR, 190

napleam, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Kristi Vasco at (705) 854-3152.

Anglers! Please fill out the back of this form prior to placing in the comment box!

Date: _____ Number Angling in Party: _____

Target Species:		Catch Description		Harvest Characteristics	
Location Angled	Species	Number Captured	Number Released	Number Harvested	
					< 46 cm (18.1")
					> 46 cm (18.1")
Comments:					

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Xenica to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River. Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

I visit the Ivanhoe River (check all that apply):

☐ One time per year

☐ Between 2 and 5 times per year

☒ Between 6 and 10 times per year

☐ More than 10 times per year

☐ My visit was conducted through a local outfitter

☐ Number in Party _____

My reason for visiting the Ivanhoe River includes (check all that apply):

☒ General nature appreciation

☐ To enjoy the falls

☐ Picnicking

☐ Camping

☐ Fishing

☐ Hunting

☐ Other _____

Additional Comments:

NICE PLACE TO BAD YOUR GONNA RUIN IT!

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will advise you of the results of our survey. Your comments can also be submitted via postal service by mailing this card to: Chateau District MNR, 190 Cherry St., Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Kira Vascotto at (705) 864-3162.

Anglers: Please fill out the back of this form prior to placing in the comment box!

Date: _____ Number Angling in Party: _____

Location Angled	Species	Catch Description		Harvest Characteristics	
		Number Captured	Number Released	Number < 46 cm (18.1")	Number > 46 cm (18.1")
Comments					

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTI = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Xenica to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River.

Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

I visit the Ivanhoe River (check all that apply)

My reason for visiting the Ivanhoe River includes (check all that apply):

One time per year _____

Between 2 and 5 times per year _____

Between 6 and 10 times per year ☒

More than 10 times per year _____

My visit was conducted through a local outfitter _____

Number in Party 2

General nature appreciation _____

To enjoy the falls _____

Picnicking _____

Camping ☒

Fishing ☒

Hunting _____

Other _____

Additional Comments:

Perfect FISHING

Beautiful night

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will advise you of the results of our study.

Your comments can also be submitted via postal service by mailing this card to: Chapleau District MNR, 190 Cherry St., Chapleau, ON, P0M 1Y0. If you would like to speak to someone about this survey, please call Dr. Kira Vascotto at (705) 864-3162.

Anglers! Please fill out the back of this form prior to placing in the comment box!

Number Angling in Party: _____

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Xeneca to fully understand the impacts/benefits of the proposed hydroelectric developments on the Iwawtoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for valuing the Iwawtoe River.

Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

I visit the Wanhoos River (check all that apply):
☒ One time per year
☒ Between 2 and 5 times per year
☐ Between 6 and 10 times per year
☐ More than 10 times per year
 My visit was conducted through a local outfitter ☐
☒ Number in Party _____
 Additional Comments: *I hope to enjoy it with my*
children one day

If you would like to be kept updated on this initiative, please include your email address and a comment

Your comments can also be submitted via postal service by mailing this card to: Chapleau District MNR, 190 Cherry St., Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr Kris Vascotto at (705) 864-3162.

Anglers! Please fill out the back of this form prior to placing in the comment box!
 vascoito at (705) 884-3162

Date: _____ Number Angling in Party: _____

Target Species:		Catch Description		Harvest Characteristics	
Location Angled	Species	Number Captured	Number Released	Number Harvested	< 46 cm (18.1") > 46 cm (18.1")
Comments:					

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Xencia to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River. Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

I visit the Ivanhoe River (check all that apply):

☐ One time per year

☐ Between 2 and 5 times per year

☒ Between 6 and 10 times per year

☒ More than 10 times per year

☐ My visit was conducted through a local outfitter

4 Number in Party

My reason for visiting the Ivanhoe River includes (check all that apply):

☒ General nature appreciation

☒ To enjoy the falls

☒ Picnicking

☒ Camping

☒ Fishing

☐ Hunting

☐ Other Swimming

Additional Comments:

Should make an outhouse

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will contact you with the results of our study. Your comments can also be submitted via postal service by mailing this card to: Chapleau District MNR, 190 Cherry St., Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Kris Vascotto at (705) 854-3162.

Angler(s) Please fill out the back of this form prior to placing in the comment box!

Date: _____ Number Angling in Party: _____

Target Species:		Catch Description		Harvest Characteristics	
Location Angled	Species	Number Captured	Number Released	Number Harvested	< 46 cm (18.1") > 46 cm (18.1")
Comments:					

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Forestry to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River. Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

I visit the Ivanhoe River (check all that apply):	My reason for visiting the Ivanhoe River includes (check all that apply):
<input checked="" type="checkbox"/> One time per year	<input type="checkbox"/> General nature appreciation
<input type="checkbox"/> Between 2 and 5 times per year	<input type="checkbox"/> To enjoy the falls
<input type="checkbox"/> Between 6 and 10 times per year	<input type="checkbox"/> Picnicking
<input type="checkbox"/> More than 10 times per year	<input checked="" type="checkbox"/> Canoeing
<input type="checkbox"/> My visit was conducted through a local outfitter	<input type="checkbox"/> Fishing
<input type="checkbox"/> 2 Number in Party	<input type="checkbox"/> Hunting
	<input type="checkbox"/> Other _____
Additional Comments: <i>it was very nice.</i>	

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will advise you of the results of our study.
Your comments can also be submitted via email to: ivanhoe@omnr.gov.on.ca
Cherry St., Chapleau, ON, P0M 1K0. If you would like to be contacted by someone about this survey, please call Dr. Kris Vasconcelos at (705) 864-3762.
Anglers! Please fill out the back of this form prior to placing in the comment box!

Date: _____
Number Angling in Party: _____

[illegible]

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

Vanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Xencora to fully understand the impacts/benefits of the proposed hydroelectric developments on the Vanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Vanhoe River. Please disregard completed surveys in the comments section.

Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

I will visit the Vanhove River (check all that apply):
 One time per year _____
 Between 2 and 5 times per year ☒
 Between 6 and 10 times per year _____
 More than 10 times per year _____
 My visit was conducted through a local outfitter _____
 Number in Party 62

Additional Comments:

I'll be coming back

If you would like to be kept updated on this initiative, please include your email address and a comment requesting you be contacted, and we will advise you of the results of our study.

Your comments can also be submitted via postal service by mailing this card to: Chapleau District MNR, 190 Cherry St., Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Krys requesting you be contacted, and we will advise you of the results of our study.

Anglers! Please fill out the back of this form prior to placing in the comment box!
 vascotto at (/US) 884-3162

Date: _____ Number Angling in Party: _____

Target Species:				Number Angling in Party:	
Location Angled	Species	Catch Description		Number Harvested	Harvest Characteristics
		Number Captured	Number Released		
Comments: Didn't catch any.					

Notes: Location includes upstream of Chutes site, downstream of Chutes site and downstream of Third Falls - see posted map for additional information

Species: BT = brook trout, W = walleye, NP = Northern Pike, OTH = please identify any additional species captured

Ivanhoe River Usage Survey - 2011

In order for the Ontario Ministry of Natural Resources and Forestry to fully understand the impacts/benefits of the proposed hydroelectric developments on the Ivanhoe River and surrounding communities, we would respectfully ask you to complete this short survey to help us understand your reasons for visiting the Ivanhoe River.

Please deposit completed surveys in the comment box at the Chutes or Third Falls site.

Visit the Ivanhoe River (check all that apply):

My reason for visiting the Ivanhoe River includes (check all that apply):

Between 2 and 5 times per year

Between 6 and 10 times per year

More than 10 times per year

My visit was conducted through a local outfitter

Number in Party

General nature appreciation

To enjoy the falls

Picnicking

Camping

Fishing

Hunting

Other

Additional Comments:

I suggest an outhouse.



If you would like to be kept updated on the initiative, please include your email address and a comment regarding your interest in the project. We will contact you by mail or by phone to provide you with more information. Your comments can also be provided by mailing this card to: Chapleau District MNR, 190 Cherry St., Chapleau, ON, P0M 1K0. If you would like to speak to someone about this survey, please call Dr. Kris Vasconcelos at (705) 864-5162.

Anglers! Please fill out the back of this form prior to placing in the comment box

Outfitter Name:

White Pine Lodge

Destination Codes:
USC - Upstream of Chutes
DSC - Downstream of Chutes
DSTF - Downstream of Third Falls

Sheet of

Date Fished	# Anglers in Party	Destination Code	Target Species	Pike		Walleye		Brook Trout		Pics?	General Comments (size of catch, incidental species, etc.)
				Caught	Kept	Caught	Kept	Caught	Kept		
June 27	3	DSC	W	14	11	12	8	-	-	-	16-15" 6-10" 4-10"
June 28	2	DSC	W	5	3	7	6	-	-	-	
June 29	2	DSC	W	2	0	11	8	-	-	-	10-15" 8-10" 4-10"
June 30	2	DSC	W	7	2	6	6	-	-	-	
July 1	2	DSC	W	3	0	9	6	-	-	-	
July 2	2	DSC	W	2	0	12	7	-	-	-	Competition fishing, no catch (small ones) released
July 3	2	DSC	W	4	0	6	0	-	-	-	catch & release
July 4	3	DSC	W	8	6	9	9	-	-	-	Catch & release
July 5	2	DSC	W	7	0	10	8	-	-	-	Catch & release

This survey is designed to improve the Ontario Ministry of Natural Resources' understanding of the usage of the Manitowish River in order to effectively review waterpower applications. If you have any questions or comments on this survey, please contact Chapleau District Ontario Ministry of Natural Resources at (705) 864-1710. Any information collected through this survey will be used for Ministry purposes and will not be distributed.

Outfitter Name:

White Pine Lodge

Destination Codes:
USC - Upstream of Chutes
DSC - Downstream of Chutes
DSTF - Downstream of Third Falls

Sheet of

Date Fished	# Anglers in Party	Destination Code	Target Species	Pike		Walleye		Brook Trout		Pics?	General Comments (size of catch, incidental species, etc.)
				Caught	Kept	Caught	Kept	Caught	Kept		
June 27	4	DSC	W	3	1	16	10	-	-	-	16-15" 6-10" 4-10"
June 28	4	DSC	W	2	2	3	3	-	-	-	
June 29	3	DSC	W	1	1	15	5	-	-	-	10-15" 8-10" 4-10"
June 30	2	DSC	W	3	0	12	4	-	-	-	2-10" 8-10" 4-10"
July 1	2	DSC	W	2	0	14	5	-	-	-	10-15" 8-10" 4-10"
July 2	2	DSC	W	2	0	4	4	-	-	-	1-2" 1-2" 1-2" 1-2"
July 3	4	DSC	W	2	0	10	4	-	-	-	1-2" 1-2" 1-2" 1-2"

This survey is designed to improve the Ontario Ministry of Natural Resources' understanding of the usage of the Manitowish River in order to effectively review waterpower applications. If you have any questions or comments on this survey, please contact Chapleau District Ontario Ministry of Natural Resources at (705) 864-1710. Any information collected through this survey will be used for Ministry purposes and will not be distributed.

Ministry of the Environment

435 James Street South
Suite 331
Thunder Bay ON P7E 6S7
Tel.: 807 475-1690
Fax: 807 475-1754

Ministère de l'Environnement

435, rue James sud
Bureau 331
Thunder Bay ON P7E 6S7
Tél. : 807 475-1690
Télééc. : 807 475-1754



Log: ENV1283MC-2010-2772

July 8, 2010

Samantha Leavitt
Stakeholder Relations Representative
Xeneca Power Developer Inc.
5160 Young St., Suite 520
Toronto, ON M2N 6L9

Dear Ms. Leavitt:

Thank you for your emails of June 10, 2010, providing the Ministry with electronic information packages detailing Xeneca Power Developer Inc.'s (Xeneca) proposed waterpower developments. I have been asked to respond to your correspondence on behalf of the Honourable John Gerretsen, Minister of the Environment.

The government is committed to expanding Ontario's use of renewable sources of energy such as waterpower. I understand that Xeneca has been awarded 19 Feed in Tariff contracts by the OPA to purchase water generated renewable power, 16 of which are located with the Ministry's Northern Region.

As I understand, the information packages are intended to notify the Ministry of the proposed projects, and invite the Ministry to participate in the Class EA process. Please be assured that the Ministry will be an active participant in the process.

I have forwarded the information provided to each of the Environmental Assessment Coordinators who will be responsible for leading the Ministry's participation in the process. They will be contacting you directly under separate cover to outline the ministry's role and expectation of the process.

I am pleased to hear that Xeneca is committed to environmentally sound planning, thorough consultation and good corporate social responsibility. My staff are looking forward to working with you in this context and within the framework of the OWA Class EA for Waterpower Projects.

Thank you for informing me about your projects. Should you have additional questions, please contact Paula Allen, Environmental Planner/EA Coordinator at 705-564-3273.

Sincerely,

 for

John Taylor
Director,
Northern Region

Muriel Kim

From: Philippa McPhee
Sent: September 28, 2010 4:46 PM
To: Andrea Clemencio; Kai Markvorsen; Karen Fortin; Pilar DePedro; Tami Sugarman
Subject: FW: Xeneca Power Development FIT Contracts - Ivanhoe, Fredrickhouse
Attachments: MOE Timmins -Cvr Ltr - June 10.pdf; Draft Notice of Commencement -Ivanhoe River.pdf; Draft Notice of Commencement -Wanatango Falls.pdf; Wanatango Falls- Project Overview - June10.pdf; Xeneca FIT Site Map.pdf; Ivanhoe River- Project Overview - June10.pdf

Philippa McPhee - WESA Toronto - (416) 383-0957 x31

From: Vanesa Enskaitis [<mailto:VEnskaitis@xeneca.com>]
Sent: Monday, September 27, 2010 3:06 PM
To: Philippa McPhee
Subject: FW: Xeneca Power Development FIT Contracts

From: Samantha Leavitt
Sent: Friday, June 25, 2010 11:06 AM
To: minister.moe@ontario.ca
Cc: Ed Laratta; Mark Holmes; Vanesa Enskaitis
Subject: Xeneca Power Development FIT Contracts

Dear Hon. Gerretsen,

RE: Ministry of the Environment – Timmins Division

As you may be aware from recent correspondence forwarded to your regional offices, Xeneca Power Development Inc. is a leading independent renewable energy developer. We are committed to environmentally sound planning, a thorough consultative process, and good corporate social responsibility.

Following up on our recently mailed materials, we wish to provide you with an electronic version of this information. This will assist in ensuring that, in the event mail has been misdirected you are in receipt of information that is of interest to your office, and further that it will enable paperless exchange with relevant departments.

Kindly advise if you have not received a package from Xeneca containing a draft Notice of Commencement, Project Overviews for our proposed waterpower projects, as well as a CD, which shows in greater detail the location of these proposed project sites.

Please don't hesitate to contact Xeneca if you have any questions, comments or concerns.

Kind regards,

Samantha

Samantha Leavitt
Stakeholder Relations Representative
Xeneca Power Development Inc.
5160 Yonge Street, Suite 520
Toronto, ON M2N 6L9
Ph: 416-590-9362
Fax: 416-590-9955
samantha@xeneca.com

www.xeneca.com



5160 Yonge St., Suite 520, Toronto, ON M2N 6L9
tel 416-590-9362 fax 416-590-9955 www.xeneca.com

June 10, 2010

Ministry of the Environment
Timmins District
Ontario Government Complex
Hwy 101 East, PO Box 3080 South
Porcupine, ON P0N 1H0

To whom it may concern,

As you may be aware, Xeneca Power Development Inc. has been awarded 19 Feed in Tariff contracts by the Ontario Power Authority ("OPA") to purchase water generated renewable power developed with the following sites believed to be within your jurisdiction:

Ivanhoe: Third Falls – MNR site # 4LC17 on the Ivanhoe River
Ivanhoe: The Chute – MNR site # 4LC18 on the Ivanhoe River
Wanatango Falls – MNR site # 4MD02 on the Frederick House River

An attached map provided on CD will help to further identify the site locations for each of the projects. Additionally, included in this package is a draft of the Notice of Commencement under the Class EA for Waterpower Projects which will be issued shortly, as well as descriptions of the projects listed above.

This letter is intended to notify your agency of the pending projects and invite agency comment and/or participation where applicable.

Upon review, you may be aware the OPA schedule will prove challenging to both Xeneca and the affected government agencies, as we now have less than 60 months to bring these waterpower projects to commercial operation. This concurs with an analysis of the process by the Ontario Waterpower Association, industry experts and our consultants.

To move forward in a timely manner, we are requesting the following:

- Ministry of the Environment's ("MOE") acknowledgement of receipt of this notice.
- Indication if the MOE intends to comment on some, or all of the projects. If the MOE intends to participate, please indicate the appropriate agency personnel who will handle the Xeneca project files.



- A MOE list of any known issues, concerns and/or comments with respect to the projects, as well as any known non-government stakeholders whom may have interest in these projects.

Please note Xeneca is prepared to meet with the MOE by teleconference to discuss any issues, and requests to be advised of any permits the MOE may require from Xeneca and/or its consultants in order to complete the MOE policy and procedures.

Please contact Xeneca Power Development Inc. with any questions or concerns.

Yours truly,

A handwritten signature in black ink, appearing to read "Patrick Gillette", is written over a horizontal line.

Patrick Gillette
President and COO
Xeneca Power Development LP

Muriel Kim

From: Philippa McPhee
Sent: September 28, 2010 5:08 PM
To: Kai Markvorsen
Subject: FW: Waterpower Project - Ivanhoe River (Thirds Falls and The Chute)
Attachments: Xeneca Third Falls The Chute MOE Response Draft NoC package Aug 12 10.pdf

Philippa McPhee - WESA Toronto - (416) 383-0957 x31

From: Vanesa Enskaitis [<mailto:VEnskaitis@xeneca.com>]
Sent: Monday, September 27, 2010 3:08 PM
To: Philippa McPhee
Subject: FW: Waterpower Project - Ivanhoe River (Thirds Falls and The Chute)

From: Cramm, Ellen (ENE) [<mailto:Ellen.Cramm@ontario.ca>]
Sent: Thursday, August 12, 2010 2:47 PM
To: Patrick Gillette
Cc: Vanesa Enskaitis; Samantha Leavitt; Morash, Patrick (ENE); Leith, Carroll (ENE); Firlotte, Daryl (ENE); Mutter, Tim (MNR); Quirke, Christopher (MEI)
Subject: Waterpower Project - Ivanhoe River (Thirds Falls and The Chute)

Hello Mr. Gillette –

Please find attached the Ministry of the Environment's (MOE) response regarding the Third Falls and The Chute proposed waterpower development site package sent to our Timmins District office on June 10, 2010. I will be the primary contact for MOE during the class environmental assessment process for this project, so future correspondence of this nature may be sent to me. Please don't hesitate to contact me if you have questions regarding the attached letter, MOE's mandate, or the environmental assessment process in general.

Thank you.

Regards,

Ellen Cramm, MCIP, RPP
Environmental Planner/EA Coordinator
Technical Support Section, Northern Region
Ministry of the Environment
Telephone: (807) 475-1728 Toll Free: 1-800-875-7772
Fax: (807) 475-1754
ellen.cramm@ontario.ca

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Région du Nord
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Fax: (807) 475-1754
Direct Line: (807) 475-1728

August 12, 2010

Mr. Patrick Gillette
President and COO
Xeneca Power Development LP
5160 Yonge St., Suite 520
Toronto, ON
M2N 6L9

Dear Mr. Gillette:

**Re: Xeneca Power Development LP. Proposed Waterpower Projects
Third Falls (MNR site # 4LC17) and The Chute (MNR site # 4LC18)
on the Ivanhoe River**

Thank you for your letter of June 10, 2010, notifying the Ministry of the Environment's (MOE) Timmins District office of Xeneca Power Development's intent to initiate a Class Environmental Assessment (EA) project for the above-noted proposed waterpower projects. You have indicated that the proposed facilities will have a generation capacity of less than 200MW and will be situated on an unmanaged waterway. Projects of this nature require approval under the Ontario *Environmental Assessment Act* (EAA). In order to obtain the authority for the project to proceed, Xeneca Power Development LP (Xeneca) must plan for the project in accordance with the process outlined in the *Class Environmental Assessment for Waterpower Projects* (Ontario Waterpower Association, October, 2008).

As the Regional EA Coordinator responsible for the area where this project is located, I will serve as the primary MOE contact for the above-noted project. This means that, as stipulated in the Waterpower Class EA, I am a mandatory contact for all required notices which include the Notice of Commencement and Notice of Completion. For projects situated on an unmanaged waterway, there is an additional mandatory notice, the Notice of Inspection (Section 4.4.2 Page 41 Waterpower Class EA). In addition, I request that I be provided with any other notices and relevant information (i.e. technical studies related to MOE's mandate, information updates) issued during the environmental assessment process for the proposed facility, including a copy of the Statement of Completion upon completion of the Waterpower Class EA process. (Note that although the Class EA identifies the MOE Regional EA Coordinator at the appropriate Regional Office of the MOE as the mandatory point of contact, as an additional measure you may also wish to include the MOE Timmins District office and other MOE contacts on your circulation lists.)

As the MOE's primary contact for this project, I have reviewed the information provided with your letter of June 10, 2010, and offer the following guidance regarding the requirements of the Class Environmental Assessment for Waterpower Projects.

Applicant of Record Status

We note that at this time Xeneca does not hold Applicant of Record Status from the Ontario Ministry of Natural Resources (MNR) for these sites. It is outlined in the Waterpower Class EA that prior to commencing the Class EA process, projects on provincial Crown land are expected to have satisfied appropriate requirements for the MNR's Waterpower Site Release and Development Review process. Applicant of Record Status is provided at the conclusion of this process. Part of the intent of this as a first step is to help inform the Class EA process and ensure that proponents are able to make a fully informed decision on whether they wish to proceed with the Class EA and seek other necessary approvals. It is also the point during which MNR, in collaboration with other agencies, compiles a list of Aboriginal Communities with which proponents need to consult throughout the planning process, including through the Waterpower Class EA process. By proceeding with the Waterpower Class EA for these projects before completing MNR's site release process, Xeneca takes on the added risks associated with not having the same information as would be available if Applicant of Record status had been obtained initially. The information and consultation expectations of the Waterpower Class EA process remain the same regardless of whether or not the Applicant of Record status is obtained before initiation of the environmental assessment process.

Status of Waterway (Managed/Unmanaged)

We note that your letter of June 10, 2010 included a draft Notice of Commencement for the Ivanhoe River Waterpower project. This draft notice indicates that the project is considered to be on an unmanaged waterway. We recommend that this classification be discussed and confirmed with MNR and MOE, with reference to the definitions section of the Waterpower Class EA. Please note that if any portion of the anticipated zone of influence for this project falls within an unmanaged waterway, we would strongly recommend that the Notice of Commencement identify the waterway as unmanaged, and that the requirements of the Class EA process for unmanaged waterways be met.

Notice of Commencement

Our review of the draft Notice of Commencement provided with your letter indicates that the notice does not appear to meet the minimum content requirements for a Notice of Commencement, as outlined in the Waterpower Class EA. Detailed comments regarding the draft notice are attached to this letter. We strongly recommend that, prior to issuing the formal Notice of Commencement, Xeneca review the draft notice and revise it, as required, to ensure that it meets the requirements of the Class EA process. Note that the content of Notices of Commencement and other required notices/reports, together with various aspects of the process followed, may be considered in the event that Part II Order requests are received regarding this project. Once a final Notice of Commencement has been published/issued, please provide a copy of the final notice,

along with confirmation of the date(s) published and publication(s) in which it appeared. If the Notice of Commencement for this project has already been published in the form attached to the letter of June 10, 2010, the Notice should be revised and republished/re-issued to ensure it meets minimum content requirements.

Coordination Meeting with Agencies

MOE strongly recommends Xeneca initiate a coordination meeting, as described on page 32 of the Waterpower Class EA. This meeting should occur before the Notice of Commencement is released, as it is an important step that can assist agencies in understanding your project. In advance of this meeting, more detailed information such as that outlined in Section 4.1.1 of the Waterpower Class EA (page 31), should be provided to relevant agencies. If it has been determined that other Class EAs or screenings apply to this project, and if the proponent intends to combine processes and issue only one Notice of Commencement, the agencies should be advised of this prior to the initial coordination meeting. It is anticipated that affected agencies, including the MOE, would be better able to assist in the identification of potential issues following their receipt and evaluation of this more detailed information.

Environmental Report

In accordance with the Waterpower Class EA, an Environmental Report must be prepared for proposed projects. In addition, for projects on unmanaged waterways, provision of a draft Environmental Report for review at the time of the Notice of Inspection is required. The Environmental Report must be reflective of the relative complexity of the project, as informed through the evaluation and consultation processes. Section 4.0 (pages 29-43) of the Waterpower Class EA describes the environmental assessment planning process. Also, the Environmental Report must contain the information as outlined in Section 4.4 (pages 40-41), including the assessment of significance of effects as outlined in Section 4.3.1. Sections 6.0 and 7.0 (pages 61-69), discuss public, agency, and Aboriginal Community consultation considerations.

Aboriginal Engagement/Involvement

At Applicant of Record stage, the Ministry of Natural Resources currently provides proponents who hold a FIT contract with a list of Aboriginal Communities that should be consulted regarding proposed projects. That list of Aboriginal Communities is developed in consultation with MOE and should be utilized during consultation efforts to satisfy the requirements of the Waterpower Class EA process. Also, the Waterpower Class EA document provides information that may be of assistance in developing an engagement approach specific to Aboriginal Communities. If for some reason you do not have a list of Aboriginal Communities provided through the Applicant of Record process, then MOE recommends that you refer to the Aboriginal Information Resources listed on our website (<http://www.ene.gov.on.ca/en/caab/aboriginal-resources.php>). In this situation, agencies listed on the website should be contacted to assist you in determining which Aboriginal Communities may be affected by, or have an interest in your project. MOE recommends that you provide notification directly to the Aboriginal Communities who may be affected by, or have an interest in, your project and provide them with an opportunity to participate as early as possible in the environmental assessment process.

Draft Environmental Report and Notice of Completion

Once the final Environmental Report is complete, a Notice of Completion must be issued to all who have expressed an interest in the project, as well as to those on the distribution list for the Notice of Commencement (including newspapers or other publications). Although not a requirement of the process, MOE encourages that a draft of the Environmental Report be provided to relevant agencies and interested parties for comment before issuance of the Notice of Completion, because addressing outstanding concerns prior to the mandatory 30 day comment period can reduce the risk of receiving Part II Order requests. The final Environmental Report must be made available for public and agency review for a period of at least 30 calendar days, during which documentation, including technical reports and other supporting information, may be reviewed and comments/input submitted to Xeneca.

Consultation/Issue Resolution

Xeneca is reminded that when concerns are raised during the public/agency comment period, the concerned party should be consulted in an attempt to resolve the concerns. Discussions to this end should proceed for an appropriate period of time, even if this means the 30-day review period is exceeded. The Director of Environmental Assessment and Approvals Branch should be notified of any extensions to the consultation period. Xeneca must also advise the concerned party that if such discussions are unsuccessful at resolving the concerns, they can submit an elevation request, if they have not already done so, to the Director of the Environmental Assessment and Approvals Branch, Ministry of the Environment, within a further seven calendar days following the end of discussions (see page 74 of the Waterpower Class EA for further details).

Other Required Permits and Approvals

Completion of the Waterpower Class EA under the EAA does not relieve proponents from the responsibility to obtain any necessary approvals or permits required under other legislation for the project. Xeneca is reminded that the project may not receive approvals under other provincial legislation or commence construction until it has successfully satisfied its obligations under the EAA.

Agency Consultation and Federal Triggers for Waterpower Projects

At this time, Xeneca is directed to Section 4.1.2 and Appendix E of the Waterpower Class EA for information on provincial and federal agencies that should be contacted, and for triggers of the Canadian Environmental Assessment Act. If the federal environmental assessment process is triggered, there is an opportunity to coordinate the federal and provincial environmental assessment processes as discussed in Section 5.2 of the Waterpower Class EA. MOE also recommends that Xeneca contact the Canadian Environmental Assessment Agency as soon as possible for assistance in evaluation of the application of the Canadian Environmental Assessment Act to the proposed undertaking, and to determine the scope of any assessment that may be required for the Federal EA process. The Canadian Environmental Assessment Agency may be contacted at (416) 952-1576.

Xeneca is reminded that the Ministry of Natural Resources is a mandatory contact for hydroelectric projects. The Waterpower Class EA process should be coordinated with the Ministry of Natural Resources' Lakes and Rivers Improvement Act provisions. Please refer to Section 5.3.1 of the Waterpower Class EA for guidance on coordinating these processes.

I trust that the above information will be of some assistance as you proceed with the Class EA process. Please feel free to contact me at any time if you have any questions regarding the MOE's mandate, or the environmental assessment process under Class Environmental Assessment for Waterpower Projects. I look forward to further discussing this project with you at the anticipated coordination meeting for this proposal.

Yours truly,



Ellen Cramm, M.C.I.P., R.P.P.
Environmental Planner/EA Coordinator

attach.

cc: Vanessa Enskaitis, Public Affairs Liaison, Xeneca Power Development Inc
Samantha Leavitt, Stakeholder Relations Representative, Xeneca Power Development Inc.
Patrick Morash, MOE
Carroll Leith, MOE
Daryl Firlotte, MOE
Tim Mutter, MNR
Chris Quirke, MEI

**Xeneca Power Development LP. Proposed Waterpower Projects
Third Falls (MNR site # 4LC17) and The Chute (MNR site # 4LC18) on the Ivanhoe River
Draft Notice of Commencement – MOE Comments**

The following comments pertain to the Draft Notice of Commencement for the above-noted Waterpower projects, as attached to the letter of June 10, 2010, from Xeneca Power Development Inc.

To ensure that the Notice meets content requirements as outlined in the Waterpower Class EA, the draft Notice of Commencement should be revised as indicated below. If the Notice of Commencement has already been published in the form attached to the letter of June 10, 2010, the Notice should be revised and republished/re-issued.

Required changes:

- include project names in the Notice heading;
- revise map to identify the location of each of the two projects by name;
- revise map to identify the anticipated zone of influence for the projects;
- confirm, through consultation with MNR and MOE, whether the project is proposed on a managed or unmanaged waterway, and revise notice if required. (Note that if any portion of the anticipated zone of influence of the project is situated on an unmanaged waterway, then the project should meet the requirements of the Class EA for a new project on an unmanaged waterway.);
- ensure that the project description included in the Notice of Commencement accurately reflects all components of each project. (We note that additional information provided with your letter of June 10, 2010 indicates that a new access road will be required for each project, yet this has not been identified in the draft project description. Information included with your letter also identifies a Transformer Station required for each project. If a new or existing Transformer Station is required then this should be included in the Notice.)
- include information regarding the tentative project schedule (We note that the proposed project phasing calls for environmental assessment/approvals in 2010-2011, detailed design in 2011-2012, construction in 2013 – 2014, and operation in 2015. This information could be summarized in the Notice of Commencement.); and
- in addition to an address, fax and telephone numbers, and e-mail address, a contact name must be provided.

The following additional changes to the draft Notice of Commencement would aid in advancing the principles of clarity and transparency, as expressed in the Class EA, and would assist members of the public in understanding the proposed projects, determining if they have an interest in the proposal, and more effectively participating in the process.

Suggested changes:

- revise map to indicate the general route of the proposed transmission lines;
- revise map to add a scale and North arrow;
- identify the anticipated length and capacity of each proposed transmission line (e.g. 4.0 km, 27.6 kV; and 10 km, 115 kV);
- identify the installed capacity of each proposed project separately;

-
- spell out “Distribution Station” (instead of using “DS”) when referring to the Weston Lake Distribution Station;
 - along with the reference to the Ontario Waterpower Association’s *Class Environmental Assessment for Waterpower Projects* (2008) in the second paragraph, include a link to this document on the Ontario Waterpower Association’s website;
 - as suggested in the Class EA (Appendix D – Sample Notification Template, last paragraph), add wording to indicate that, if requested, comments and associated personal information included in submissions will become part of the public record and may be released to others; and
 - include reference to the Lakes and Rivers Improvement Act and any other statutes for which this Notice of Commencement is intended to fulfil notification requirements. (Please note that, in order for this Notice of Commencement to meet notification requirements of specific statutes, the Notice must specifically identify those statutes and must also meet all of their information requirements. The Notice of Commencement, in its current form, would only address provincial Environmental Assessment Act (EAA) and Canadian Environmental Assessment Act (CEAA) requirements if all information requirements for those respective statutes are met (as noted above, the draft notice does not meet provincial requirements). Xeneca may wish to identify additional statutes and include further information to ensure that the Notice meets the requirements of other pieces of legislation. Similarly, if it is determined that other Class EAs or screenings (such as the Class EA for MNR Resource Stewardship and Facility Development Projects) apply to these projects, and if the proponent intends to combine processes and issue only one Notice of Commencement, we would strongly advise that this be indicated in the Notice.

Muriel Kim

From: Philippa McPhee
Sent: October 4, 2010 12:19 PM
To: Pilar DePedro
Subject: FW: Xeneca waterpower projects
Attachments: MOE Ltr - E Cramm - 30 sep.pdf

Please log in appropriate EA logs.

Thanks,

Philippa

Philippa McPhee - WESA Toronto - (416) 383-0957 x31

From: Vanesa Enskaitis [<mailto:VEnskaitis@xeneca.com>]
Sent: Thursday, September 30, 2010 10:17 AM
To: Cramm, Ellen (ENE)
Cc: Tami Sugarman; Philippa McPhee
Subject: RE: Xeneca waterpower projects

Good morning Ellen,

Please see Xeneca's response to your August 9 and 12 letters. We apologize for the delayed response. Call me if you have any questions.

Regards,

Vanesa Enskaitis

Public Affairs Liaison
Xeneca Power Development Inc.
5160 Yonge Street, Suite 520
Toronto, ON M2N 6L9
T: 416-590-9362 X 104
F: 416-590-9955
E: venskaitis@xeneca.com

From: Cramm, Ellen (ENE) [<mailto:Ellen.Cramm@ontario.ca>]
Sent: Thursday, August 12, 2010 2:47 PM
To: Patrick Gillette
Cc: Vanesa Enskaitis; Samantha Leavitt; Morash, Patrick (ENE); Leith, Carroll (ENE); Firlotte, Daryl (ENE); Mutter, Tim (MNR); Quirke, Christopher (MEI)
Subject: Waterpower Project - Ivanhoe River (Thirds Falls and The Chute)

Hello Mr. Gillette –

Please find attached the Ministry of the Environment's (MOE) response regarding the Third Falls and The Chute proposed waterpower development site package sent to our Timmins District office on June 10, 2010. I will be the primary contact for MOE during the class environmental assessment process for this project, so future correspondence of this

nature may be sent to me. Please don't hesitate to contact me if you have questions regarding the attached letter, MOE's mandate, or the environmental assessment process in general.

Thank you.

Regards,

Ellen Cramm, MCIP, RPP
Environmental Planner/EA Coordinator
Technical Support Section, Northern Region
Ministry of the Environment
Telephone: (807) 475-1728 Toll Free: 1-800-875-7772
Fax: (807) 475-1754
ellen.cramm@ontario.ca



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tel 416-590-9362 fax 416-590-9955 www.xeneca.com

September 30, 2010

Ellen Cramm, MCIP, RPP
Environmental Planner/EA Coordinator
Technical Support Section, Northern Region
Ministry of the Environment
435 South James St., Suite 331
Thunder Bay, ON P7E 6S7

Dear Ms. Cramm,

Re: Xeneca Limited Partnership Proposed Waterpower Projects:

- Ivanhoe River, Third Falls– MNR Site # 4LC17
- Ivanhoe River, The Chute– MNR Site #4LC18
- Wanatango Falls - MNR Site # 4MD02
- Lapinagam Rapids - MNR Site # 4LE03
- Middle Twp. Buchan - MNR Site # 4LE05
- Near North Boundary - MNR Site # 4LF9
- Outlet Kapuskasing Lake - MNR Site # 4LE01
- Larder & Raven – MNR Site # 2JC21,2JC22
- Marter Twp. - MNR Site # 2JC16,2JC17

Thank you for your letters of August 9 and 12, 2010 responding to our June 10, 2010 correspondence regarding Xeneca Limited Partnership's ("Xeneca") intent to initiate Class Environmental Assessments for Waterpower Projects ("EA") for the proposed waterpower projects noted above.

Xeneca is committed to adhering to the principals of open public consultation and engagement throughout the development of the proposed projects and beyond. Xeneca has competent staff with experience in the permitting and construction of waterpower plants in Ontario and that staff have engaged proficient consultants to complete the necessary tasks in a professional manner. We intend to work closely with your Ministry and others during this challenging period of FIT project development.

We appreciate your input and advice regarding our proposed projects and look forward to working with you as we precede through the EA process and post-EA approvals.

Response to your comments:

1. You have indicated that, as the Regional Environmental Assessment Coordinator for the above projects, you will serve as the primary MOE contact for the above projects.

Your contact information has been duly noted, as has your designation as mandatory contact for all required Notices in the EA process. In addition, we will also provide you any other notices and relevant information (i.e. technical studies related to MOE's mandate, information updates) issued during the EA preparation and review process for the proposed facilities.

2. Please note that a Notice of Commencement (NoC) for each of these projects was published in both English and French in the local newspapers in July and August 2010.

A draft copy of these notices for the above projects was provided to former Minister of the Environment, Honourable John Gerretsen, electronically and by regular mail on June 25, 2010. We received a message from his office on 8 July confirming that the information has been forwarded to the appropriate EA Coordinators. We would have been very happy to incorporate your comments had they been received prior to publishing.

3. Updated Notices of Commencement

To ensure that the Notice meets content requirements as outlined in the Waterpower Class EA, the Notice of Commencement has been revised as indicated in five project specific letters sent to Xeneca. Notices for Kapuskasing River, Ivanhoe River, Frederick House River, Marter River and Larder River will be republished along with Notice of Public Information Centres. A draft will be provided to you for comment. PICs are planned for November.

We wish to reiterate that, given the level of public interest in our projects after FIT announcements, we felt it was crucial to reach out early to the wide range of groups and individuals who wanted to engage, but, for various reasons might not, or could not, contact us directly. The best means available to the waterpower developer to undertake this outreach is through the EA and the issuance of the Notice of Commencement. We felt it important to provide a means for stakeholders to engage as soon as possible. The processes under the Class EA and GEA are not well established or understood in the province, and, as such, efforts have been made to give stakeholders the greatest possible opportunity to ask questions and provide input.

4. Status of Waterway (managed/unmanaged)

We recently received an email from MNR Sault Ste. Marie district with this same question. To the best of our understanding, the Kapuskasing River the Blanche River are managed waterways as there are existing Water Management Plans approved by MNR. Xeneca needs clarification on this and have asked our attorney to study this issue with you.

5. Map in the used in the Notice of Commencement

Our projects and the zones of influence are all on Crown Land. The maps used in our Notices show the project areas and they reach out to stakeholders in the wider community surrounding our projects. The Notices give very clear indication of the project location relative to local reference points. It may also be noteworthy that we have not seen any N of C issued by any proponent which only shows a limited area of a few hundred meters around a waterpower project. A North Arrow has been included in our updated Notices.

6. Project Schedule

The project schedule will be included in our updated draft NOCs.

7. Confidential Input by Stakeholders

We intend to follow the OWA format regarding confidentiality in the updated Notices of Commencement.

8. Applicant of Record

With the exception of the Larder & Raven project, which has Applicant of Record status, Xeneca applied for Applicant of Record for the remaining sites in 2008 but we have yet to receive any indication from MNR as to why this status has been denied despite several meetings and subsequent correspondence with MNR since 2008. However, we continue to meet with First Nation representatives for these sites as well as municipal, individual and group stakeholders.

As you are aware, each FIT contract from OPA is limited to a time frame of 60 months. Given that in some cases the MNR's 45 day window to merely process site applications has stretched beyond 1,000 days, to delay the Class EA while awaiting Applicant of Record would almost certainly jeopardize the projects and breach OPA contracts.

As a result of the public announcements by OPA and subsequent stakeholder enquiries from Aboriginal Communities and other stakeholders on the project, to fail to engage would be contrary to the participatory approach envisioned by the Ministry of Energy, OPA, and MOE under the FIT process.

It may also be noteworthy that Xeneca received no complaints from stakeholders regarding the issuance of Notice of Commencement, and, in fact, we have letters, including a Municipal resolution, indicating support for the projects.

9. Coordination Meetings

We are in the process of preparation for coordination meetings. Our Project Descriptions are in preparation and will be issued shortly. The meetings will likely happen in the October and November timeframe at various venues to be determined.

10. Environmental Report

Your comments are noted and appreciated. Public and agency input throughout the EA process and review of our draft Class EA reports is important to us.

11. Aboriginal Engagement

We have been in contact with Aboriginal Communities and Groups since 2007. We have discussed our projects, environmental issues, participation agreements and our archeological programs. These discussions are extensive and ongoing.

12. Draft Environmental report and Notice of inspection and Notice of Completion

Thank you for your comments. We fully intend to provide draft reports and documents to agencies and address their input. We value this input and consider it essential to designing our projects.

13. Consultation/Issue Resolution

A Consultation Plan is in place to work with stakeholders to identify and address issues, as per best practices. We strive to reach the broadest spectrum of stakeholders as possible respond to all questions and develop mitigation plans and methods to minimize the potential effects of our projects.

14. Other Required Permits and Approvals

A draft permit plan will be presented at PIC meetings and outlined in Project Descriptions. Your agency input will be sought as we proceed through the EA and into the post-EA process. Xeneca intends to prepare most permit applications in Q1 and Q2 of 2011 and will seek your input to ensure these are complete before they are submitted after EA approval.

15. Agency Consultation and Federal Triggers

We trust that this information will evolve through the upcoming coordination meetings and subsequent discussions.

If you wish, I would be pleased to send you a copy of Xeneca's Aboriginal Engagement Policy.

Xeneca is working to ensure that the goals of (i) the government's renewable energy policy; (ii) the environmental assessment process, (iii) the MNR's site release policy, and (iv) post-EA approvals requirements, are met in meeting our FIT obligations.

I look forward to your input on our five updated Notices of Commencement with Announcement of the corresponding Public Information Centres to be provided to you shortly. Furthermore, we're pleased to continue to work with you during the remainder of the EA.

Again, thank you for your letter and any future help you can provide.

Yours truly,

Edmond Laratta
Xeneca Power Development Inc.
Manager, Environmental Services and Approvals
5160 Yonge Street, Suite 520
North York, ON M2N 6L9

Cc - Tami Sugarman, WESA
Philippa McPhee, WESA

Muriel Klm

From: Philippa McPhee
Sent: October 4, 2010 12:21 PM
To: Pilar DePedro
Subject: FW: Revised Notice of Commencement and PIC Announcement
Attachments: Revised Notice of Commencement and PIC - Wanatango - 30Sep10.pdf; Revised Notice of Commencement and PIC - Ivanhoe River - 30Sep10.pdf; Revised Notice of Commencement and PIC - Kapuskasing River - 30Sep10.pdf; Revised Notice of Commencement and PIC - Larder Raven - 30Sep10.pdf; Revised Notice of Commencement and PIC - Marter Twp - 30Sep10.pdf

Please log email and attachments as necessary.

Philippa

Philippa McPhee - WESA Toronto - (416) 383-0957 x31

From: Vanesa Enskaitis [<mailto:VEnskaitis@xeneca.com>]
Sent: Thursday, September 30, 2010 11:15 AM
To: Cramm, Ellen (ENE)
Cc: Philippa McPhee; Tami Sugarman; King, Larry
Subject: Revised Notice of Commencement and PIC Announcement

September 30, 2010

Dear Ms. Cramm,

Thank you for your initial comments regarding Notice of Commencement filed for Xeneca Power Development Projects within the jurisdiction of your office.

We appreciate your input and direction and have incorporated it into the revised Notice of Commencement which are attached for your review and comment. Also note that the revised Notice of Commencement will also include and Notice of Public Information Centres (attached). We believe the notices fulfill requirements outlined in the Ontario Waterpower Association Class Environmental Assessment for Waterpower.

It is intended that the attached will be published in local media within the next 20 days. Any additional comments you may have regarding these attached notices should be provided back to Xeneca prior to October 20, 2010.

Further, we will shortly be issuing invitations to affected government agencies to attend the Public Information Centres. Kindly advise if you will not be attending and who from your office will be attending in order that we may communicate the invitation to them directly.

If you have any questions, please do not hesitate to contact me. We look forward to working with you along the EA process and beyond.

Vanesa Enskaitis

Public Affairs Liaison
Xeneca Power Development Inc.
5160 Yonge Street, Suite 520
Toronto, ON M2N 6L9
T: 416-590-9362 X 104

F: 416-590-9955
E: venskaitis@xeneca.com

Muriel Kim

From: Vanesa Enskaitis [VEnskaitis@xeneca.com]
Sent: February 25, 2011 11:46 AM
To: lianne.kentish@ontario.ca
Cc: Pilar DePedro; King, Larry
Subject: PIC Slides and other request

Hi Liane,

Hope you're doing well. I'm just going over some of my follow-up notes from the January PIC's in Kapuskasing and Foleyet and I see that you made requests for PIC Panel Slides. Since you are on our Contact Mailing List, you would have received notification that the panels have since been put up on our Xeneca Website at www.xeneca.com
I am writing to you to ensure that you now have these slides.

Please let me know if you need anything additional.

Best regards,
Vanesa

Vanesa Enskaitis

Public Affairs Liaison
Xeneca Power Development Inc.
5160 Yonge Street, Suite 520
Toronto, ON M2N 6L9
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F: 416-590-9955
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Visit the Xeneca website for the most up-to-date project information:
www.xeneca.com

Ministry of Transportation

Engineering Office
Planning and Design Section
Northeastern Region
301-447 McKeown Avenue
North Bay, ON P1B 9S9
Tel.: 705-497-5456
Fax.: 705-497-5499

Ministère des Transports

Bureau du génie
Section de planification et de conception
Région du Nord-Est
301-447, avenue McKeown
North Bay, ON P1B 9S9
Tél.: 705-497-5456
Télééc.: 705-497-5499



February 18, 2011

OEL-HydroSys Inc.
3108 Carp Rd.
P.O. Box 430
Carp, ON K0A 1L0

Attention: Tami Sugarman

Dear Ms. Sugarman:

RE: Xeneca Power Development Inc.
Larder and Raven GS – MTO New Liskeard Area (Hwy 624)
Ivanhoe the Chute GS – MTO Cochrane Area (Hwy 101)
Serpent Four Slide Falls GS – MTO Sudbury Area (Hwy 108)
Serpent McCarthy Chute GS – MTO Sudbury Area (Hwy 17)
Vermillion River Wabashik GS – MTO Sudbury Area (Hwy 17 or 6)
Wahnapitai River Allen and Struthers GS - MTO Sudbury Area (Hwy 637)

This is in reply to your earlier circulations concerning the above noted proposed power development projects.

I'm pleased to advise that in general, the Ministry of Transportation of Ontario (MTO) has no objections.

According to the information you provided, all sites are to be accessed via existing and proposed new roads that will eventually connect to Provincial Highways using existing entrances. As per the *Public Transportation and Highway Improvement Act*, MTO Entrance permits will be required if any modifications are required at highway entrances. Prior to making permits available, the MTO must inspect the entrance locations to ensure that our safety and operational requirements are met. Depending on the posted speed of the highway, the following minimum visibility requirements are required:

80 km/h posted = 230 metres of visibility in each direction
90 km/h posted = 250 metres of visibility in each direction

(over)

Concerning the proposed power lines, these lines must be placed outside our right-of-ways (ROW). MTO Encroachment and/or Building/Land Use permits will be required for any proposed crossing of our ROW or for lines located within 45 metres from the limits of our ROW. Vertical clearance of highway crossings must meet the requirements of MTOD – 2245.020 (copy attached).

Concerning the Allen and Struthers location, the proposed power line will cross Highway 69 near it's junction with Highway 64 west of Alban. In the near future, the Ministry will be four laning this section of Highway 69 and an interchange is planned at this junction. The power line alignment must not interfere with our proposed interchange location. Detailed information concerning our alignment may be found at www.highway69.ca.

You may obtain further information concerning our permit and setback requirements by contacting the following Corridor Management Officers:

New Liskeard – Ms. Natalie Dugas, e-mail: natalie.dugas@ontario.ca

Cochrane – Ms. Sandy Knight, e-mail: sandy.knight@ontario.ca

Sudbury – (Vermillion & Serpent River Sites) – Ms. Lise Taylor, e-mail: lise.taylor@ontario.ca

Sudbury – (Wahnapitae River site) - Ms. Anne Poliquin-Chaput: e-mail: anne.poliquin-chaput@ontario.ca

I trust the above is of assistance. Should you wish to discuss the contents of this letter, please call.

Sincerely,



Paul F. Marleau
Corridor Management Planner

cc. Natalie Dugas, MTO New Liskeard
 Sandy Knight, MTO Cochrane
 Lise Taylor, MTO Sudbury
 Poliquin-Chaput, MTO, Sudbury

MINIMUM VERTICAL CLEARANCES

LOCATION OF WIRES OR CABLES	MINIMUM VERTICAL CLEARANCES ABOVE FINISHED GRADE										
	COMMUNICATIONS CABLE AND SPAN WIRE	LOW VOLTAGE CABLE 0-750V	HIGH VOLTAGE CABLE								
			>750V ≤22kV	>22kV ≤50kV	>50kV ≤90kV	>90kV ≤120kV	>120kV ≤150kV	>150kV ≤200kV	220kV (380kV)	318kV (500kV)	442kV (735kV)
1 OVER FREEWAYS, EXPRESSWAYS, AND RAMPS	6.0	6.0	6.0	6.0	6.0	6.1	6.4	6.9	10.5	15.7	20.7
2 OVER KING'S HIGHWAYS AND OTHER ROADWAYS	4.7	4.7	5.1	5.5	5.8	6.1	6.4	6.9	10.5	15.7	20.7
3 OVER AREAS LIKELY TO BE TRAVELLED BY VEHICLES (OTHER THAN RESIDENTIAL DRIVEWAYS)	4.7	4.7	5.1	5.5	5.8	6.1	6.4	6.9	10.5	15.7	20.7
4 ALONGSIDE ROADS IN DENSELY POPULATED AREAS	4.7	4.7	5.1	5.5	5.8	6.1	6.4	6.9	10.5	15.7	20.7
5 ALONGSIDE ROADS OR OVER AREAS UNLIKELY TO BE TRAVELLED BY VEHICLES	3.3	3.7	4.5	4.9	5.2	5.5	5.8	6.3	6.5	7.5	8.7
6 OVER RESIDENTIAL DRIVEWAYS	4.0	4.0	5.1	5.5	5.8	6.1	6.4	6.9	10.5	15.7	20.7
7 OVER AREAS ACCESSIBLE TO PEDESTRIANS ONLY	2.8	3.4	3.7	4.0	4.3	4.6	4.9	5.4	5.6	6.6	7.8
8 ABOVE TOP OF RAIL AT RAILWAY CROSSINGS	7.6	7.6	7.9	8.4	8.7	9.0	9.3	9.8	10.0	11.0	12.2

NOTES:

- A Clearances shown are under maximum sag conditions as defined in CSA C22.3, No.1-06.
 B Voltages are rms line to ground. Voltages in brackets are phase to phase.
 C This MTOD is the same as OPSD-217.030.
 D All dimensions are in metres unless otherwise shown.

MINISTRY OF TRANSPORTATION ONTARIO DRAWING

MINIMUM VERTICAL CLEARANCES FOR AERIAL CABLE SYSTEMS

November 2007 Rev 0

 MTOD-2245.020

Pilar DePedro

From: Smith, Brett (MEI) [Brett.Smith@ontario.ca]
Sent: January-05-11 12:03 PM
To: Tami Sugarman
Subject: RE: Aboriginal partnerships

Hello Tami,

The Ministry of Energy will not be attending the upcoming coordination meetings in January. However, the project descriptions that you have provided are very useful and we would like to track the status of these projects, so please keep me on the distribution list for any notices.

I hope the New Year finds you well Tami. Best regards,

Brett Smith
416-212-5416

From: Tami Sugarman [mailto:tsugarman@oel-hydrosys.ca]
Sent: December 23, 2010 11:42 AM
To: Smith, Brett (MEI)
Subject: RE: Aboriginal partnerships

Hi Brett

Xeneca presently has 19 signed FIT contracts. We are engaged for 14 of them to conduct EA planning. There are 12 EAs planned for those 14 sites. Four more project descriptions have been drafted but not released to date. Therefore, we are still in the EA stage for all 14 sites. Regulatory approvals follow the successful completion of the EA.

As soon as the remaining project descriptions are finalized you will receive a copy along with an invitation to the EA coordination meeting. Does the MEI want to attend these meetings as we have a few scheduled for the sites listed below in January? Let me know.

Best regards,
Tami



Tami Sugarman, B.Sc., P.Geo. — Principal, Environmental Assessment and Approvals Coordinator

OEL-HydroSys Inc. — 3108 Carp Road - P.O. Box 430, Carp Ontario K0A 1L0
(T) (613) 839-1453 x229 (C) (613) 894-3509 (F) (613) 839-5376

tsugarman@oel-hydrosys.ca — www.oel-hydrosys.ca

OEL-HydroSys, WESA Envir-Eau, WESA, WESA Technologies, members of WESA Group Inc.

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Pensez à l'environnement avant l'impression de ce courriel

From: Smith, Brett (MEI) [mailto:Brett.Smith@ontario.ca]
Sent: December 23, 2010 11:33 AM

To: Tami Sugarman
Subject: RE: Aboriginal partnerships

Hi again Tami,

You may be able to help with this request. I have summaries for eight proposed projects (below), but I believe there are about 20 recently proposed Xeneca projects at various stages of regulatory approvals.

Is it possible to share the project description documents for the ones not listed below? If the projects have advanced to complete Class EAs, I am happy to receive those documents as well.

- Allen & Struthers GS
- Big Eddy GS
- Four Slide Falls GS
- Half Mile Rapids GS
- Larder and Raven GS
- McCarthy Chute GS
- The Chute GS
- Wabageshik Rapids GS

Best regards,

Brett Smith
416-212-5416

From: Tami Sugarman [mailto:tsugarman@oel-hydrosys.ca]
Sent: December 21, 2010 4:13 PM
To: Smith, Brett (MEI)
Subject: RE: Aboriginal partnerships

No worries at all, no need to apologize.
All the best of the season!



Tami Sugarman, B.Sc., P.Geo. — Principal, Environmental Assessment and Approvals Coordinator
OEL-HydroSys Inc. — 3108 Carp Road - P.O. Box 430, Carp Ontario K0A 1L0
(T) (613) 839-1453 x229 (C) (613) 894-3509 (F) (613) 839-5376
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Pensez à l'environnement avant l'impression de ce courriel

From: Smith, Brett (MEI) [mailto:Brett.Smith@ontario.ca]
Sent: December 21, 2010 4:01 PM
To: Tami Sugarman
Subject: RE: Aboriginal partnerships

My apologies Tami, and thank you for your prompt response.

Happy holidays,

Brett Smith
416-212-5416

From: Tami Sugarman [mailto:tsugarman@oel-hydrosys.ca]
Sent: December 21, 2010 4:00 PM
To: Smith, Brett (MEI)
Subject: RE: Aboriginal partnerships

Hello Brett

I'm sorry but OEL-HydroSys Inc. is not involved in this business aspect of the projects so I am unable to provide such insights except to inform you that they have in their employ Mr. Dean Assinewe who is responsible for aboriginal engagement matters. It would be best to contact Xeneca's President, Patrick Gillette pgillette@xeneca.com, or Aboriginal Relations Liaison, Dean Assinewe dassinewe@xeneca.com about this particular matter.

Best regards,

Tami



Tami Sugarman, B.Sc., P.Geo. — Principal, Environmental Assessment and Approvals Coordinator

OEL-HydroSys Inc. — 3108 Carp Road - P.O. Box 430, Carp Ontario K0A 1L0
(T) (613) 839-1453 x229 (C) (613) 894-3509 (F) (613) 839-5376
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Pensez à l'environnement avant l'impression de ce courriel

From: Smith, Brett (MEI) [mailto:Brett.Smith@ontario.ca]
Sent: December 21, 2010 12:39 PM
To: Tami Sugarman
Subject: Aboriginal partnerships

Good afternoon Tami,

I was reviewing the project descriptions for proposed hydro stations and would like to know more about potential Aboriginal partnerships.

In section 1.2.1 of each project's description, Xeneca states that it "is presently pursuing the possibility of partnering with interested identified Aboriginal communities." Can you provide some insights into how Xeneca is engaging communities with respect to partnership? I understand that context plays an important role, but I am interested to know how Xeneca will approach those discussions with the various communities.

Thank you for any help, and please don't hesitate to call me if you would prefer to discuss over the phone. Best regards,

Brett Smith
Senior Advisor
First Nation and Métis Policy and Partnerships Office

Ministry of Energy
880 Bay Street, 3rd Floor
Toronto, ON M7A 2C1

P: 416-212-5416
F: 416-327-3344



**Ministry of
Northern Development,
Mines and Forestry**

**Ministère du
Développement du Nord,
des Mines et des Forêts**

**933 Ramsey Lake Road
Sudbury, ON P3E 6B5
Phone: 705-670-5887
Fax: 705-670-5807**

**Ms. Samantha Leavitt
Xeneca Power Development Inc.
520-5160 Yonge St
Toronto ON M2N 6L9**

July 8, 2010

Dear Ms. Leavitt

This letter is in response to the review of Xeneca Power Development Inc.'s proposal relating to 18 hydro-electric developments. The Resident Geologist Program (RGP) has done the following with regard to each development:

- 1. checked the site of the proposed dam to determine its status with regard to tenure and alienation of surface rights and mining rights;**
- 2. checked the Ministry's Abandoned Mines Information System (AMIS) database to determine whether any mining-related hazards are recorded in the area of the dam, or within a one-kilometre radius of it;**
- 3. checked the Ministry's Assessment File Report Inventory (AFRI) database to determine whether past mineral exploration activity has been reported for the area;**
- 4. reviewed the Xeneca "Project Overview" for each site to assess the potential environmental considerations identified by the company; and**
- 5. used the GIS-based "Metallic Mineral Potential Estimation Tool" to get an estimation of the mineral potential of the dam sites.**

The outcomes of these reviews are listed in the Attachment to this letter.

.../2

An additional concern that relates to all of these sites is that they will have power lines ranging from 1.1 to 22 kilometres in length associated with them. All of the types of assessments that have been done for the dam sites themselves must also be done for the transmission corridors, and the concerns raised in the Attachment with regard to the individual dam sites will also need to be addressed for each of the transmission corridors.

I trust that you will find this in order.

Yours truly,

A handwritten signature in cursive script, reading "Ruth DeBicki". The signature is written in black ink and is positioned above the printed name and title.

R.L. Debicki, P.Geo.
Land Use Policy and Planning Coordinator

cc: Jennifer Lillie-Paetz, Environmental Assessment Coordinator, MNDMF

ATTACHMENT 1
Xeneca Power Development Inc.'s Proposals
MDNMF Comments – Resident Geologist Program

1. With regard to each project, Xeneca has recognized "riparian rights" in its Project Overview documents as being potential environmental considerations, and has identified the following four categories of land to which those riparian rights might apply:

- Crown Land;
- Federal Land and Private Land;
- Federal Land (DFB Petawawa); and
- Crown and Private Land

Xeneca has not recognized in its Project Overview documents that there are two rights in land: surface rights, and mining rights. Each may be held by different owners, and the owners of each have their own rights and obligations. Should Xeneca wish to undertake any work on a property where a mining claim is held by a third party, the *Mining Act* requires the company to obtain the approval of the claimholder before undertaking such work, or – failing such approval – the consent of the Lieutenant Governor in Council, regardless of whether the surface rights are held by the Crown or by some other private owner.

The status of land tenure at the dam sites (as noted on MNDMF's CLAIMaps website on July 7, 2010), is summarized in the table below.

Project Site	Mining Lands		Surface Rights		Other "Alienations"
	Claims	Leases	Patented	Crown	
Allen & Struthers	None	none	No	Yes	No
Big Eddy	None	none	No	CFB Petawawa	Yes
Cascade Falls	None	none	Yes	No	No
Four Slide Falls	Yes : 4221194	none	No	Yes	No
Half Mile Rapids	none	none	No	Yes	No
Lapinagam Rapids	none	none	No	Yes	Yes
Larder & Raven	none	none	No	Yes	Yes
Marter Twp.	none	none	Yes	No	Maybe
McCarthy Chute	none	none	No	Yes	Yes
McPherson Falls	None	none	Yes	No	No
Middle Twp. Buchan	none	none	No	Yes	Yes
Near North Boundary	none	none	No	Yes	Yes
Outlet Kapuskasing Lake	none	none	No	Yes	Yes

Soo Crossing	none	none	Yes	No	No
The Chute	none	none	No	Yes	Yes
Third Falls	Yes : 3006261	none	No	Yes	Yes
Wabageshik	none	none	No	Yes	No
Wanatango Falls	Yes : 1154617	none	No	Yes	Yes

Note that there are currently mining claims in good standing at three of the proposed dam sites. There are no mining leases at any of the proposed dam sites.

Since the mining tenure in the Province is constantly changing, however, Xeneca is advised to check the Ministry's CLAIMaps website at:

http://www.mndm.gov.on.ca/mines/lands/claimap3/disclaimer_e.asp

on a regular basis to determine the status of their areas of interest.

In addition to considerations regarding the mineral rights of the proposed dam sites, Xeneca may have to consider other factors with regard to the status of the land at several of the sites. It appears that there are privately owned lands at four of the sites. The owner may be the Ministry of Natural Resources (as opposed to the Crown), or some other third party.

There are other "alienations" at ten of the Crown-owned sites that may also need to be addressed. These alienations may be *Mining Act* withdrawals that would accommodate hydro-electric developments, but they may reflect other alienations such as protected area status that would make development difficult.

Depending upon the extent of inundation from the development, or the location of infrastructure related to the hydro-electric development, similar considerations may have to be addressed for the area surrounding the dam site itself. The table below lists the status of lands within a one-kilometre radius of the coordinates of the dam site, and shows that five of the sites have mining claims nearby, two have mining leases nearby. In addition, it shows that seven sites have patented surface rights nearby and 11 have "other alienations" nearby.

Project Site	Mining Lands		Surface Rights		Other "Alienations"
	Claims	Leases	Patented	Crown	
Allen & Struthers	None	None	Yes	Yes	No
Big Eddy	None	None	No	No	Yes
Cascade Falls	None	Yes	Yes	No	No

Four Slide Falls	Yes: 4221194 and 4221193	None	No	Yes	No
Half Mile Rapids	None	None	No	Mckay Yes Petawawa No	No
Lapinagam Rapids	None	None	No	Yes	Buchan, Clouston and Davin Yes Amundsen No
Larder & Raven	None	None	No	Yes	Yes
Marter Twp.	Yes: 4225614 and 5225613	None	Yes	Yes	Marter Yes Chamber, Iain No
McCarthy Chute	None	None	No	Yes	Yes
McPherson Falls	None	None	Yes	No	No
Middle Twp. Buchan	None	None	No	Yes	Yes
Near North Boundary	None	None	No	Yes	Yes
Outlet Kapuskasing Lake	None	None	No	Yes	Yes
Soo Crossing	None	Yes	Yes	No	No
The Chute	None	None	No	Yes	Yes
Third Falls	Yes: 3006261, 3006260, 3006253 and 3006257	None	No	Yes	Yes
Wabageshik	Yes: 4254407	None	Yes	Yes	No
Wanatango Falls	Yes: 3006946, 1190501, 1154618, 1154614, 1154622, 1218621, 1154621, 1154613, 1154617, 1154627, 4230126, 1154626, 1154616, 1154612, 1154620, 1154619, 1154611, 1154615 and 1154625	None	Yes	Yes	Mann: Yes Duff: No

2. The status of mining-related hazards, as identified using the Ministry's Abandoned Mines Information System (AMIS) database, is summarized below.

Mining-related hazards are normally divided into two categories; those in very close proximity to the dam sites; and those centred within one kilometre of the dam sites. Depending upon the type of a hazard, its effects may extend beyond its "pinpoint" surface location. For example, underground workings may extend laterally for significant distances from a shaft; windblown contaminants can affect areas surrounding an un-rehabilitated tailings area; and contaminated surface or groundwater may flow beyond the site of a physical hazard.

The table below indicates the number of recorded hazards that may need to be considered with regard to each proposed development. The first column gives the name of the project. The second indicates the number of hazards within the township where the proposed dam site is located. The proposed dam site may actually be more than one kilometre from any hazard, but more detailed work would have to be done to determine this. A preliminary review suggests that there are no mining-related hazards in the "immediate vicinity" of the proposed dam sites. The third column indicates the numbers of recorded hazards in all townships within a one-kilometre radius of each proposed development, because some of the proposed developments are close to one or more township boundaries.

Project Site	AMIS Reports – Township of Project Site	AMIS Reports –Townships within one kilometre of Project Site
Allen & Struthers	1	1
Big Eddy	None	None
Cascade Falls	13	13
Four Slide Falls	1	1
Half Mile Rapids	None	None
Lapinagam Rapids	None	Buchan, Clouston, Amundsen and Davin: None
Larder & Raven	None	None
Marter Twp.	1	Marter: 1 (Mine site within 1 Township); Chamberlain: None
McCarthy Chute	1	Proctor: 1; Deagle: None
McPherson Falls	9	9
Middle Twp. Buchan	None	None
Near North Boundary	None	None
Outlet Kapuskasing Lake	None	None
Soo Crossing	13	13

The Chute	None	None
Third Falls	None	None
Wabageshik	7	7
Wanatango Falls	1	Mann: 1; Duff: None

Xeneca Power Development Inc. should take these areas into consideration as a matter of health and safety for any of its employees who may be working in the area. In addition, Xeneca Power Development Inc. should be aware that it is an offence under the *Mining Act* to alter, destroy, remove or impair any rehabilitation work made in accordance with the Act.

Please note that the information provided with regard to AMIS sites has been compiled from various sources, and the Ministry makes no representation and takes no responsibility that it is accurate, current or complete. Xeneca Power Development Inc. may wish to undertake its own independent investigation to validate this information.

3. The Ministry's Assessment File Report Inventory (AFRI) database provides an indication as to whether past mineral exploration activity has been reported for the area.

For the townships in which the proposed sites are located, the numbers of assessment reports listed in the table below are on file with the Ministry. The first column gives the name of the project. The second indicates the number of assessment reports within the township where the proposed dam site is located. The proposed dam site may actually be more than one kilometre from the subject area of any or all of the assessment reports, but more detailed work would have to be done to determine this. The third column indicates the numbers of assessment reports in all townships within a one-kilometre radius of each proposed development, because the sites of some of the proposed development sites are close to one or more township boundaries.

Project Site	AFRI Reports – Township of Project Site	AFRI Reports – Townships within one kilometre of Project Site
Allen & Struthers	None	None
Big Eddy	None	None
Cascade Falls	58	58
Four Slide Falls	12	12
Half Mile Rapids	1	Mckay: 1; Petawawa: None
Lapinagam Rapids	0 or 1	Buchan: 0 or 1; Clouston, Amundsen and Davin: None
Larder & Raven	62	62

Marter Twp.	29	Marter: 29; Chamberlain: 5
McCarthy Chute	12	Proctor: 12; Deagle: 10
McPherson Falls	18	18
Middle Twp. Buchan	None	Clouston: None; Buchan: 0 or 1
Near North Boundary	0 or 1	Clouston: None; Buchan: 0 or 1; Maude and Allenby: 1
Outlet Kapuskasing Lake	None	None
Soo Crossing	58	58
The Chute	11	11
Third Falls	64	64
Wabageshik	78	78
Wanatango Falls	Approximately 232	Mann: Approximately 232; Duff: 36

Again, please note that the information provided with regard to the assessment reports has been compiled from various sources, and the Ministry makes no representation and takes no responsibility that it is accurate, current or complete. Other exploration and development work that may have been done, but not reported is also protected by the *Mining Act*.

Xeneca Power Development Inc. should note that if mineral development workings or claim markings are not recognized and subjected to damage (e.g., claim lines or grid lines are destroyed by cutting vegetation), the *Mining Act* requires that compensation shall be paid to the claimholder.

4. The "Project Overviews" for each of the sites were reviewed to assess the potential "environmental" considerations identified by the company. Four considerations were identified for every site. They are:

- fish species, habitat and migration;
- terrestrial vegetation and habitat;
- First Nations / Aboriginal traditional land / resource use; and
- recreational use and navigation.

A fifth consideration, commercial operations and tourism, was identified for the following six sites:

- Cascade Falls;
- Lapinagam Rapids;
- McPherson Falls;
- Middle Twp. Buchan;
- Near North Boundary; and
- Wabageshik Rapids.

The term "commercial operations and tourism" is unclear, and should be clarified. It should include forestry operations, and mineral exploration and development in addition to tourism. Off mine-site exploration and deposit appraisal expenditures in Ontario are expected to be close to \$500 million in 2010; the possibility that exploration might be occurring on or around the proposed development sites must be considered.

5. For the sites under consideration as potential dams, it is normal practise for the Ministry of Natural Resources to ask the Ministry of Northern Development, Mines and Forestry to withdraw either the surface rights, or both the surface and mining rights from staking. When a request for a withdrawal is received, the Resident Geologist Program normally carries out a mineral resource assessment as part of its review.

Given the early stage of the current proposals, full mineral resource assessments were not done, but the GIS-based "Metallic Mineral Potential Estimation Tool" was used to estimate the mineral potential of the dam sites. Scores of 65 or higher are normally considered to have provincial significance. Eight of the 18 sites under consideration have scores higher than 65. A more detailed assessment may result in different scores for some of the sites (e.g., lower scores for the sites scoring 100).

Site	Score/100	Ore Deposit Model
Allen & Struthers	62	Paleoplacer Uranium Deposits
Big Eddy	41	Diamond-Bearing Rocks / Carbonatite – Alkalic Intrusive Complex
Cascade Falls	100	Sudbury Igneous Complex Hosted Cu-Ni-PGE
Four Slide Falls	67	Lode Gold
Half Mile	41	Diamond-Bearing Rocks / Carbonatite – Alkalic Intrusive Complex
Lapinagam Rapids	41	Diamond-Bearing Rocks / Carbonatite – Alkalic Intrusive Complex
Larder and Raven	81	Diamond-Bearing Rocks
Marter Township	96	Lode Gold
McCarthy Chute	19	Lode Gold
McPherson Falls	100	Sudbury Igneous Complex Hosted Cu-Ni-PGE
Middle Twp. Buchan	41	Diamond-Bearing Rocks / Carbonatite – Alkalic Intrusive Complex
Near North Boundary	41	Diamond-Bearing Rocks / Carbonatite – Alkalic Intrusive Complex
Outlet Kapuskasing Lake	41	Diamond-Bearing Rocks / Carbonatite – Alkalic Intrusive Complex
Soo Crossing	100	Sudbury Igneous Complex Hosted Cu-Ni-PGE

The Chute	41	Diamond-Bearing Rocks / Carbonatite – Alkalic Intrusive Complex
Third Falls	93	Volcanic-Hosted Massive Sulphides
Wabageshik Rapids	62	Paleoplacer Uranium Deposits
Wanatango Falls	93	Volcanic-Hosted Massive Sulphides

The Provincial Policy Statement, issued under the *Planning Act*, provides that development and activities that would preclude or hinder the establishment of new operations or access to the resources in areas of provincially significant mineral potential shall only be permitted if:

- resource use would not be feasible; or
- the proposed land use or development serves a greater long-term public interest; and
- issues of public health, public safety and environmental impact are addressed.

The Ministry of Northern Development, Mines and Forestry considers the direction provided by the Provincial Policy Statement when assessing whether or not to approve applications for withdrawal orders.

Pilar DePedro

From: Boyer, Heather (MNDMF) [heather.boyer@ontario.ca]
Sent: November-19-10 2:53 PM
To: Tami Sugarman
Subject: RE: Xeneca Power Development Inc. proposed The Chute waterpower project on the Ivanhoe River - Project Description Document Notice

Yes. That sounds good.

Thank You.

Heather Boyer

*Northern Development Advisor
Ministry of Northern Development, Mines & Forestry
Regional Economic Development Branch
PH (705) 235-1657
CELL (705) 363-6507
FAX (705) 235-1660
EMAIL: heather.boyer@ontario.ca*

*5520 Hwy 101 East, Bag 3060
Ontario Government Complex
South Porcupine, ON P0N 1H0*

From: Tami Sugarman [mailto:tsugarman@oel-hydrosys.ca]
Sent: November 19, 2010 2:50 PM
To: Boyer, Heather (MNDMF)
Cc: Pilar DePedro
Subject: RE: Xeneca Power Development Inc. proposed The Chute waterpower project on the Ivanhoe River - Project Description Document Notice

Hi Heather

I apologize for this inconvenience.

We actually have another contact as the one-window for your Ministry, Ruth Debicki. We included you on this notice and others as we did not understand your role and did not want to leave anyone out.

Thank you for this clarification. We will continue to inform only Ms. Debicki as the on-window contact.

Other contacts on our list, such as yourself, will only be notified at mandatory periods of the planning process (consultation events; Notice of Completion); is this suitable for your purposes?

Tami



Tami Sugarman, B.Sc., P.Geo. — Principal, Environmental Assessment and Approvals Coordinator

OEL-HydroSys Inc. — 3108 Carp Road - P.O. Box 430, Carp Ontario K0A 1L0

(T) (613) 839-1453 x229 (C) (613) 894-3509 (F) (613) 839-5376

tsugarman@oel-hydrosys.ca — www.oel-hydrosys.ca

OEL-HydroSys, WESA Envir-Eau, WESA, WESA Technologies, members of WESA Group Inc.

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From: Boyer, Heather (MNDMF) [mailto:heather.boyer@ontario.ca]

Sent: November 19, 2010 2:36 PM

To: Tami Sugarman

Subject: RE: Xeneca Power Development Inc. proposed The Chute waterpower project on the Ivanhoe River - Project Description Document Notice

Hi Tammy,

Just a quick note. I signed up to receive email notification on the status of your projects progress sometime ago, and I would like to be very clear that communication with me should not be seen as "one-window" access to consultation with my ministry.

Thanks,

Heather Boyer

Northern Development Advisor

Ministry of Northern Development, Mines & Forestry

Regional Economic Development Branch

PH (705) 235-1657

CELL (705) 363-6507

FAX (705) 235-1660

EMAIL: heather.boyer@ontario.ca

5520 Hwy 101 East, Bag 3060

Ontario Government Complex

South Porcupine, ON PoN 1H0

From: Tami Sugarman [mailto:tsugarman@oel-hydrosys.ca]

Sent: November 19, 2010 10:25 AM

To: Liu, Amy [CEAA]; Cramm, Ellen (ENE); kelly.withers@dfo-mpo.gc.ca; EnviroOnt@tc.gc.ca; EACoordination_ON@inac-a-inc.gc.ca; melanie_lalani@hc-sc.gc.ca; Rob.Dobos@ec.gc.ca; EA-SPI/EE-ISP@nrcan.gc.ca; Mutter, Tim (MNR); Webber, Gerry (MTC); Debicki, Ruth (MNDMF); Boyer, Heather (MNDMF); Tovey, Dan (MAH); Gibson, Amy (MEI); Pickles, David (MAA); Godin, Greg (MTO); janet.ronne@city.timmings.on.ca; clerks@timmins.ca

Cc: Ed Laratta; Vanesa Enskaitis; Philippa McPhee; pnorris@owa.ca; Rob Steele

Subject: Xeneca Power Development Inc. proposed The Chute waterpower project on the Ivanhoe River - Project Description Document Notice

Importance: High

Good morning:

On behalf of Xeneca Power Corporation Inc. we are pleased to provide you with the attached letter of introduction and directions to accessing and downloading the project description document for the proposed Xeneca Power Corporation Inc. waterpower development at The Chute Project site located on the Ivanhoe River in northeastern Ontario. Xeneca has been awarded a Feed-in Tariff (FIT) contract for this site by the Ontario Power Authority (OPA).

You are included on our email list as you have been identified as the one-window contact for your organization and are listed as such on the Contact List for the project. We ask that you distribute this information to colleagues within your organization that should be involved in the planning process. If the main contact for

your organization is someone other than you please inform us at EAinfo@oel-hydrosys.ca as soon as possible so that our staff can update the contact list accordingly.

We have elected to distribute this document in electronic format for environmental reasons. You may access our FTP site by completing the following instructions:

Site: <ftp://clientftp.wesa.ca>
Username: XENECA
Password: WESA.2010

An attached word document guide will assist you with the download process. You will need to activate passive mode in your Internet Explorer browser to be able to access the FTP site behind our corporate firewall.

Aboriginal communities located nearby will also be receiving this notice directly from Xeneca's First Nation and Aboriginal Relations Liaison, Mr. Dean Assinewe.

A hard paper copy and/or CD Rom copy of the project description document will be issued shortly to federal agencies and Aboriginal communities.

Other Parties: If you require a paper and/or CD Rom copy in addition to this electronic copy please notify us at EAinfo@oel-hydrosys.ca otherwise we will assume that this electronic version is adequate.

We are pursuing an Ontario Class Environmental Assessment for Waterpower Projects planning process for this site. A federal screening may also be triggered at the site. The proposed The Chute GS development site is located upstream from another proposed waterpower project Xeneca's Third Falls Hydroelectric Generating Station. The Ivanhoe River development sites are located approximately 30 km apart and are interpreted to be independent of each other based on hydrology and biology. We have therefore decided to pursue a separate Class Environmental Assessment for Waterpower Projects planning process for each site.

The project description is intended to provide an overview of the project components, general information on the project setting and relevant background information on the project. This Project Description is also designed to assist the proponent in ensuring that all aspects of the project are accounted for in enough detail to allow the public, Aboriginal communities and government agencies to provide meaningful comment throughout the Class EA process. The information will allow you to identify your environmental assessment and regulatory requirements associated with the project. It will also allow a federal authority to determine if there is potential for the *Canadian Environmental Assessment Act (CEAA)* to be triggered by the project proposal and whether the agency will be a Responsible Authority (RA) under *CEA Act* or whether it is able to provide technical expertise as an expert advisor (FA).

It is our intention to schedule a proponent-agency EA coordination meeting as soon as possible. We hope that this project description document will assist you in preparing for this meeting, the purpose of which is to discuss the following items in the context of the project's proposed schedule;

- applicable policies and procedures administered by each agency (list of statutes and regulations) and list of required approvals for the project;
- a comprehensive list of values and issues of concern/benefit identified with the site and the project (natural, socio-cultural, economic);
- data and information collection procedures; and,
- a consultation and engagement plan.

We trust this submission is adequate for these purposes. Please do not hesitate to contact us with any questions or clarifications.

Respectfully submitted on behalf of Xeneca Power Corporation Inc.,

Tami Sugarman and Philippa McPhee, EA Project Managers
OEL-HydroSys Inc.



Tami Sugarman, B.Sc., P.Geo. — Principal, Environmental Assessment and Approvals Coordinator

OEL-HydroSys Inc. — 3108 Carp Road - P.O. Box 430, Carp Ontario K0A 1L0

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**Ministry of
Municipal Affairs
and Housing**

**Municipal Services Office
Northeastern**

159 Cedar Street, Suite 401
Sudbury ON P3E 6A5
Telephone: 705 564-0120
Toll Free: 1 800-461-1193
Fax: 705 564-6863
Web : www.mah.gov.on.ca/onramp-ne

**Ministère des
Affaires municipales
et du Logement**

**Bureau des services aux municipalités
du Nord-Est**

159, rue Cedar, bureau 401
Sudbury ON P3E 6A5
Téléphone : 705 564-0120
Sans frais : 1 800 461-1193
Télécopieur : 705 564-6863
Site Web: www.mah.gov.on.ca/onramp-ne



July 20, 2010

VIA REGULAR MAIL

Mr. Peter Gillette
Xeneca Power Development Inc.
5160 Young Street, Suite 520
Toronto, ON M2N 6L9

Dear Mr. Gillette,

RE: Northeastern Ontario FIT Projects
Request for Comments

Thank you for providing MAH with notice of 19 potential FIT projects located across northeastern Ontario. This notice and package of materials including mapping was received on June 16, 2010. Please note that this office does not intend to comment specifically on any of these projects.

As per conversation between myself and Vanesa Enskaitis of your office on July 19, 2010, it is understood that you have already contacted some municipalities with respect to these projects. It is recommended that any municipalities that may be affected by these projects should be provided with notice. In particular:

- the Allen & Struthers project appears to be within the Municipality of Killarney;
- 3 of the 4 projects on the Vermillion River appear to be within the City of Greater Sudbury, and the fourth may be of interest to the Township of Nairn and Hyman;
- the two projects on the Serpent River appear to be within the City of Elliot Lake;
- the project on the Blanche River appears to be within the Township of Chamberlain;
- the project on the Larder River may be of interest to the Township of Larder Lake and/or the Township of McGarry; and
- the projects on the Kapuskasing River and Ivanhoe River may be of interest to the Township of Chapleau.

For future reference, the mapping of our regional office's area of coverage is available at <http://www.mah.gov.on.ca/Page5869.aspx>.

If you have further questions, please do not hesitate to contact me directly at 705-564-6802.

Sincerely,

Wendy Kaufman, MCIP, RPP
Planner

Muriel Klm

From: Tovey, Dan (MAH) [Dan.Tovey@ontario.ca]
Sent: November 23, 2010 2:22 PM
To: Tami Sugarman
Cc: VEnskaitis@xeneca.com; Kaufman, Wendy (MAH); White, Charlsey (MAH); Pilar DePedro; Elms, Michael (MAH)
Subject: Xeneca Power Development Inc.
Attachments: 94MNR100003 northeastern ontario FIT projects.doc

Hello Tami,

Over the last few days this office has received several emails containing the link to the project description and advance notice on upcoming meetings for FIT projects in the following locations:

- Allan and Struthers (Wanapitei R)
- Serpent River
- Larder River
- Ivanhoe
- Wabagishik Rapids

An individual response re the Larder River was provided via email on Friday, November 19, 2010.

Review of our files has revealed that a comprehensive response regarding 19 FIT projects was provided by our office to Mr. Peter Gilette by mail on July 20, 2010 following a telephone discussion with Vanesa Enskaitis. The unsigned version of our response is attached for your reference.

Thank you for providing us with a second opportunity to comment on some of these projects, but this first response will be the only comments that our office will be putting forward.

The Petawawa River notice should be directed to Mike Elms, Manager of Community Planning and Development, of our Eastern Municipal Services Office (c.c.'d on this email).

Thank you,

Dan Tovey|Manager(A)
Northeastern Municipal Services Office
Ministry of Municipal Affairs and Housing
☎: 705.564.7128|☎:705.564.6863|✉:dan.tovey@ontario.ca

Visit our OnRAMP Site at: www.mah.gov.on.ca/onramp-ne



Please consider the environment before printing this email note.

From: Tami Sugarman [mailto:tsugarman@oel-hydrosys.ca]
Sent: November 21, 2010 1:10 PM
To: Liu, Amy [CEAA]; Hutchison, Carrie (ENE); rich.rudolph@dfo-mpo.gc.ca; EnviroOnt@tc.gc.ca; EACoordination_ON@inac-ainc.gc.ca; melanie_lalani@hc-sc.gc.ca; Rob.Dobos@ec.gc.ca; Caitlin.Scott@NRCan.gc.ca; Robinson, Bob L. (MNR); Webber, Gerry (MTC); Miller, Chuck (MNR); Morello, Murray (MNDMF); Tovey, Dan (MAH); Kaufman, Wendy (MAH); Gibson, Amy (MEI); Pickles, David (MAA); Godin, Greg (MTO); paul.sajatovic@sudbury.ca;

townkill@vianet.on.ca

Cc: Ed Laratta; Vanesa Enskaitis; Philippa McPhee; pnorris@owa.ca; Rob Steele

Subject: Xeneca Power Development Inc. proposed Allen and Struthers waterpower project on the Wanapitei River - Project Description Document Notice

Importance: High

Good afternoon:

On behalf of Xeneca Power Corporation Inc. we are pleased to provide you with the attached letter of introduction and directions to accessing and downloading the project description document for the proposed Xeneca Power Corporation Inc. waterpower development at the Allen and Struthers Project site located on the Wanapitei River in northeastern Ontario. Xeneca has been awarded a Feed-in Tariff (FIT) contract for this site by the Ontario Power Authority (OPA).

You are included on our email list as you have been identified as the one-window contact for your organization and are listed as such on the Contact List for the project. We ask that you distribute this information to colleagues within your organization that should be involved in the planning process. If the main contact for your organization is someone other than you please inform us at EAinfo@oel-hydrosys.ca as soon as possible so that our staff can update the contact list accordingly.

We have elected to distribute this document in electronic format for environmental reasons. You may access our FTP site by completing the following instructions:

Site: <ftp://clientftp.wesa.ca>

Username: XENECA

Password: WESA.2010

An attached word document guide will assist you with the download process. You will need to activate passive mode in your Internet Explorer browser to be able to access the FTP site behind our corporate firewall.

Aboriginal communities located nearby will also be receiving this notice directly from Xeneca's First Nation and Aboriginal Relations Liaison, Mr. Dean Assinewe.

A hard paper copy and/or CD Rom copy of the project description document will be issued shortly to federal agencies and Aboriginal communities.

Other Parties: If you require a paper and/or CD Rom copy in addition to this electronic copy please notify us at EAinfo@oel-hydrosys.ca otherwise we will assume that this electronic version is adequate.

We are pursuing an Ontario Class Environmental Assessment for Waterpower Projects planning process for this site. A federal screening may also be triggered at the site.

The project description is intended to provide an overview of the project components, general information on the project setting and relevant background information on the project. This Project Description is also designed to assist the proponent in ensuring that all aspects of the project are accounted for in enough detail to allow the public, Aboriginal communities and government agencies to provide meaningful comment throughout the Class EA process. The information will allow you to identify your environmental assessment and regulatory requirements associated with the project. It will also allow a federal authority to determine if there is potential for the *Canadian Environmental Assessment Act (CEAA)* to be triggered by the project proposal and whether the agency will be a Responsible Authority (RA) under *CEA Act* or whether it is able to provide technical expertise as an expert advisor (FA).

It is our intention to schedule a proponent-agency EA coordination meeting as soon as possible. We hope that this project description document will assist you in preparing for this meeting, the purpose of which is to discuss the following items in the context of the project's proposed schedule:

- applicable policies and procedures administered by each agency (list of statutes and regulations) and list of required approvals for the project;
- a comprehensive list of values and issues of concern/benefit identified with the site and the project (natural, socio-cultural, economic);
- data and information collection procedures; and,
- a consultation and engagement plan.

We trust this submission is adequate for these purposes. Please do not hesitate to contact us with any questions or clarifications.

Respectfully submitted on behalf of Xeneca Power Corporation Inc.,

Tami Sugarman and Philippa McPhee, EA Project Managers
OEL-HydroSys Inc.



Tami Sugarman, B.Sc., P.Geo. — Principal, Environmental Assessment and Approvals Coordinator

OEL-HydroSys Inc. — 3108 Carp Road - P.O. Box 430, Carp Ontario K0A 1L0

(T) (613) 839-1453 x229 (C) (613) 894-3509 (F) (613) 839-5376

tsugarman@oel-hydrosys.ca — www.oel-hydrosys.ca

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Muriel Kim

From: Tami Sugarman
Sent: December 6, 2010 9:06 AM
To: Tovey, Dan (MAH)
Cc: Kaufman, Wendy (MAH); White, Charlsey (MAH); Philippa McPhee; Pilar DePedro
Subject: RE: Xeneca Power Development Inc.

Acknowledged.

Best regards

Tami

Tami Sugarman - OEL-HydroSys Carp - (613) 839-1453 x229

From: Tovey, Dan (MAH) [mailto:Dan.Tovey@ontario.ca]
Sent: December 3, 2010 6:43 PM
To: Tami Sugarman
Cc: Kaufman, Wendy (MAH); White, Charlsey (MAH); Philippa McPhee; Pilar DePedro
Subject: RE: Xeneca Power Development Inc.

Tami,

As noted in our July 20th correspondence, MMAH's Northeastern Municipal Services office doesn't need to be further notified on any of the projects you've identified below.

Thanks

Dan Tovey|Manager(A)
Community Planning and Development, Northeastern Municipal Services Office
Ministry of Municipal Affairs and Housing
☎: 705.564.7128|☎:705.564.6863|✉:dan.tovey@ontario.ca

Visit our OnRAMP Site at: www.mah.gov.on.ca/onramp-ne



Please consider the environment before printing this email note.

From: Tami Sugarman [mailto:tsugarman@oel-hydrosys.ca]
Sent: November 25, 2010 1:45 PM
To: Tovey, Dan (MAH)
Cc: Kaufman, Wendy (MAH); White, Charlsey (MAH); Elms, Michael (MAH); Philippa McPhee; Pilar DePedro
Subject: RE: Xeneca Power Development Inc.

Hello Dan and MAH team:

Thank you for providing a copy of your Ministry's correspondence to Xeneca dated July 20, 2010. This correspondence was not shared with my office, which may explain why we did not contact your regional offices directly.

For the Larder site it is very clear that no further engagement of the MAH is required.

Please clarify: To what degree, if at all, does your Ministry need to be further notified in the EA planning processes for the remaining proposed waterpower development projects? We have the MAH team organized as such;

For the six projects that we have issued Project Descriptions to date:

- Serpent- Four Slide Falls - Charley White
- Serpent- McCarthy Chute - Charley White
- Ivanhoe- The Chute, Wendy Kaufman
- Wanapatei- Allen and Struthers, Wendy Kaufman
- Vermilion- Wabageshik, Wendy Kaufman
- Petawawa- Half Mile, Michael Elms

And for some pending Project Descriptions:

- Petawawa- Big Eddy - Michael Elms
- Blanche- Marter Twp. - Wendy Kaufman
- Ivanhoe- Third Falls - Wendy Kaufman
- Vermilion- At Soo Crossing, Cascade Falls, McPherson Falls - Wendy Kaufman
- Frederickhouse- Wanatango – Wendy Kaufman

Our consultation and engagement plan for these projects include the municipalities listed in your July 20 letter as well as others identified for each project. We will ensure that these municipalities are provided with opportunities to engage in the planning process, including all mandatory notice points.

Respectfully,
Tami Sugarman



Tami Sugarman, B.Sc., P.Geo. — Principal, Environmental Assessment and Approvals Coordinator

OEL-HydroSys Inc. — 3108 Carp Road - P.O. Box 430, Carp Ontario K0A 1L0

(T) (613) 839-1453 x229 (C) (613) 894-3509 (F) (613) 839-5376

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From: Tovey, Dan (MAH) [<mailto:Dan.Tovey@ontario.ca>]

Sent: November 23, 2010 2:22 PM

To: Tami Sugarman

Cc: VENSKAITIS@xeneca.com; Kaufman, Wendy (MAH); White, Charley (MAH); Pilar DePedro; Elms, Michael (MAH)

Subject: Xeneca Power Development Inc.

Hello Tami,

Over the last few days this office has received several emails containing the link to the project description and advance notice on upcoming meetings for FIT projects in the following locations:

- Allan and Struthers (Wanapitei R)
- Serpent River
- Larder River
- Ivanhoe
- Wabagishik Rapids

An individual response re the Larder River was provided via email on Friday, November 19, 2010.

Review of our files has revealed that a comprehensive response regarding 19 FIT projects was provided by our office to Mr. Peter Gillette by mail on July 20, 2010 following a telephone discussion with Vanesa Enskaitis. The unsigned version of our response is attached for your reference.

Thank you for providing us with a second opportunity to comment on some of these projects, but this first response will be the only comments that our office will be putting forward.

The Petawawa River notice should be directed to Mike Elms, Manager of Community Planning and Development, of our Eastern Municipal Services Office (c.c.'d on this email).

Thank you,

Dan Tovey | Manager(A)
 Northeastern Municipal Services Office
 Ministry of Municipal Affairs and Housing
 ☎: 705.564.7128 | 📠: 705.564.6863 | ✉: dan.tovey@ontario.ca

Visit our OnRAMP Site at: www.mah.gov.on.ca/onramp-ne



Please consider the environment before printing this email note.

From: Tami Sugarman [mailto:tsugarman@oel-hydrosys.ca]
Sent: November 21, 2010 1:10 PM
To: Liu, Amy [CEAA]; Hutchison, Carrie (ENE); rich.rudolph@dfo-mpo.gc.ca; EnviroOnt@tc.gc.ca; EACoordination_ON@inac-ainc.gc.ca; melanie_lalani@hc-sc.gc.ca; Rob.Dobos@ec.gc.ca; Caitlin.Scott@NRCan.gc.ca; Robinson, Bob L. (MNR); Webber, Gerry (MTC); Miller, Chuck (MNR); Morello, Murray (MNDMF); Tovey, Dan (MAH); Kaufman, Wendy (MAH); Gibson, Amy (MEI); Pickles, David (MAA); Godin, Greg (MTO); paul.sajatovic@sudbury.ca; townkill@vianet.on.ca
Cc: Ed Laratta; Vanesa Enskaitis; Philippa McPhee; pnorris@owa.ca; Rob Steele
Subject: Xeneca Power Development Inc. proposed Allen and Struthers waterpower project on the Wanapitei River - Project Description Document Notice
Importance: High

Good afternoon:

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You are included on our email list as you have been identified as the one-window contact for your organization and are listed as such on the Contact List for the project. We ask that you distribute this information to colleagues within your organization that should be involved in the planning process. If the main contact for your organization is someone other than you please inform us at EAinfo@oel-hydrosys.ca as soon as possible so that our staff can update the contact list accordingly.

We have elected to distribute this document in electronic format for environmental reasons. You may access our FTP site by completing the following instructions:

Site: <ftp://clientftp.wesa.ca>
Username: XENECA
Password: WESA.2010

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A hard paper copy and/or CD Rom copy of the project description document will be issued shortly to federal agencies and Aboriginal communities.

Other Parties: If you require a paper and/or CD Rom copy in addition to this electronic copy please notify us at EAinfo@oel-hydrosys.ca otherwise we will assume that this electronic version is adequate.

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It is our intention to schedule a proponent-agency EA coordination meeting as soon as possible. We hope that this project description document will assist you in preparing for this meeting, the purpose of which is to discuss the following items in the context of the project's proposed schedule:

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- data and information collection procedures; and,
- a consultation and engagement plan.

We trust this submission is adequate for these purposes. Please do not hesitate to contact us with any questions or clarifications.

Respectfully submitted on behalf of Xeneca Power Corporation Inc.,

Tami Sugarman and Philippa McPhee, EA Project Managers
OEL-HydroSys Inc.



Tami Sugarman, B.Sc., P.Geo. — Principal, Environmental Assessment and Approvals Coordinator

OEL-HydroSys Inc. — 3108 Carp Road - P.O. Box 430, Carp Ontario K0A 1L0

(T) (613) 839-1453 x229 (C) (613) 894-3509 (F) (613) 839-5376

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MUNICIPAL

Minutes from November 1 Presentation to Foleyet Local Services Board

Attended by:

LSB Chair, Deborah DesRochers

LSB Secretary Shiela Derasp

Fernande Dallaire

Adrienne Thibault

Koren Gabriel

Verna Bookson

M. Holmes, Xeneca VP, Corporate Affairs

L. King, Hatch Energy (Consulting for Xeneca)

A sign-in sheet noting attendee's names and contact information was completed.

The meeting commenced at approximately 10:10 a.m. November 2 with Local Services Board (LSB) Chair and Secretary Shiela Derasp welcoming M. Holmes and L. King and noting there is significant local interest in Xeneca's proposed projects.

M. Holmes presented draft versions of the information panels that are to be finalized for Public Meetings in Foleyet in January to inform the general public of Xeneca's waterpower projects on the Ivanhoe River.

The 30 minute presentation outlined:

- **Xeneca's company profile**
- **The Waterpower Class EA process**
- **Project conceptual design**
- **Development timelines**

Following the presentation, members of the Local Services Board noted that the Community has seen a significant loss of population, dropping from about 3,000 people 20 years ago to a present day total of 150-175 year-round residents.

Members of the LSB also posed questions and noted that the most significant concern about Xeneca's projects involve any impacts on the Town of Foleyet, and , in particular, water control and the community's water intake and sewage treatment plant.

M. Holmes noted that the project in closest proximity to the Town is the Chutes which is at least 7 km downstream. Impact from the proposed structure is less than 3 km. The second project at Third Falls is 30 km downstream from the Chutes.

The project concept and design including an in-water structure, intake channel and powerhouse can be designed to improve water control on the river, but, again, given the project location, it is unlikely there would be much if any impact on the Town.

Service Board members noted an existing dam at Ivanhoe Lake failed several years ago causing significant damage to the town.

M. Holmes noted that, unlike older water control structures using stop logs, Xeneca's facilities would be automated and water control can be affected by the push of a button. Further, it was explained that design of the plant is based on the most extreme conditions that can be expected in a 100 year period.

Service Board members noted that the community's drinking water and sewage treatment is managed by the Ontario Clean Water Agency and that the agency would be involved in the development process to ensure community water supplies are protected.

Asked if the project would cost the town anything, M. Holmes noted that the opposite would likely be true. Significant economic potential exists in terms of employment and economic stimulus associated with a major construction project. The cost to build at \$5 million per MW was outlined for the group and it was noted Xeneca works to procure locally as much of its goods and services as possible. Regionally it can be expected that up to \$2.5 million per MW would be spent hiring labor and services.

Asked about Xeneca's experience in building power plants, M. Holmes referred the group to Misema GS outside of Englehart Ontario. He explained that the principals of the company have significant experience through a former company known as CREC.

Questions were also posed about impact to terrestrial wildlife and it was noted that the region is renowned for its population of rare white moose. M. Holmes and L. King explained that both Xeneca projects on the Ivanhoe are relatively small and it is highly unlikely flooding will impact moose. LSB members were advised that more definitive answers to environmental questions will be developed through the Waterpower Class Environmental Assessment (Class EA).

Describing the project milestones, M. Holmes noted that, under contract, Xeneca is to have the plant built and commissioned within a five year period. He also noted that consultation with the Town and other stakeholders does not begin or end with the Class EA but is expected to be ongoing.

LSB members noted that there are several gauges measuring water levels and flows on the Ivanhoe River. M. Holmes noted that the data collected by those gauges is being used by the company and that

further monitoring equipment may be installed to further determine the best project design and operation.

LSB members noting past problems with Hydro One Networks Inc (HONI) also questioned what role that distribution company may have in the project. M. Holmes explained that HONI is not part of waterpower project itself but that in order to connect to the provincial power grid, HONI would be involved.

M. Holmes concluded the meeting noting that town participation in archeological and other studies is encouraged and he urged LSB and community members to visit the Xeneca website at www.xeneca.com for regular project updates, notices and information.

The meeting adjourned at 11:30 a.m.

The Local Services Board of Foleyet
125 Sherry Avenue P.O. Box 162,
Foleyet, On P0M 1T0

Telephone/Fax 705-899-2896

To Xeneca Power Corporation Inc.

The Local Services Board of Foleyet is addressing the upcoming project being installed on the Ivanhoe River at "The Chutes and Third Falls".

The Town of Foleyet Water Treatment Plant relies on the water from Ivanhoe River and is protected under the **Safe Drinking Water Act**. We know that the project is outside our boundaries, but the concern is that we have had issues with low water levels and floods in the spring with heavy runoff when our winters have had an abundance of snow in the past and do not want to have fears of this happening because of this project.

With the past record and now this project that your company wants to proceed with on our river, we The Local Services Board of Foleyet would like you to prove to us that your company will be mindful of our concerns and set our minds at ease after the project is completed. Too high and too low water levels can put our Water/Sewer Treatment Plants in trouble. We rely on The Ministry of Natural Resources Chapleau District to monitor the Ivanhoe Dam. They inform the Board whenever they add or remove logs. Will your project hold back water and release water without informing us The Local Services Board of Foleyet, are you going to inform the Ministry of Natural Resources Chapleau whenever this procedure is to take place or is it an automatic system, and will it interfere with the Ivanhoe Dam control of water?

Can you paint a true picture about the outcome and guarantee to the Town of Foleyet that we are protected under all circumstances? We are looking at a couple of years after this project is up and running if we will still have our water resource that we have today?

Your prompt reply regarding this would be greatly appreciated.

Pilar DePedro

From: Pilar DePedro
Sent: May-10-11 2:02 PM
To: 'sect@onlink.net'
Subject: Foleyet; Social and Economic Setting

Good afternoon Sheila,

We met on April 19th at the EA Coordination Meeting in Timmins for the Ivanhoe River proposed waterpower projects; The Chute and Third Falls. I am contacting you as I am currently gathering information for The Chute Environmental Report and was hoping you could help. Essentially I am trying to gain a better understanding of the community for example the existing local businesses, the primary industry in the area, do most residents work in the community? Perhaps we could arrange a good time for me to call you for a discussion if that suits.

Regards,

Pilar

Pilar DePedro

From: Mark Holmes [mholmes@xeneca.com]
Sent: June-20-11 4:06 PM
To: Tami Sugarman
Subject: FW: Public meeting

Tami:

FYI

Mark

From: Mark Holmes
Sent: Monday, June 20, 2011 4:05 PM
To: 'sect@onlink.net'
Cc: Vanesa Enskaitis; Stephanie Hodsoll
Subject: RE: Public meeting

Hi Sheila:

Just following up on last week's e-mail and am available to chat when you've got a few minutes.

Thanks

Mark Holmes
Vice President
Corporate Affairs
Xeneca Power Development

5160 Yonge St.
North York
M2N 6L9

416-590-9362
416-590-9955 (fax)
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www.xeneca.com

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communication is strictly prohibited. If you are not the intended recipient and have received this message in error, please notify me by return e-mail and delete this message from your system. Xeneca Power Development Inc.

From: Mark Holmes
Sent: Friday, June 17, 2011 4:32 PM
To: 'sect@onlink.net'
Cc: Vanesa Enskaitis; Stephanie Hodsoil
Subject: Public meeting

Good afternoon Sheila:

Pilar forwarded your e-mail to me regarding the public information meeting being organized for July 7 in Chapleau.

After holding two Public Information Centers PICs in Foleyet, we have had MNR very firmly suggest that we hold a public meeting in either Timmins or Chapleau. We have opted for Chapleau to comply with the government's direction.

Sheila, as you may have already heard from Vanesa, I would be pleased to meet with you and the local services board prior to the Public meeting and could meet in Foleyet on July 6. Similarly, if there are other stakeholders such as the Ivanhoe Lake Cottagers who would like to meet prior to the Public meeting, I would make time available for them.

I do believe that most, if not all, of the concerns raised regarding the Ivanhoe River waterpower projects have been addressed and we very much want to share that information with the people of Foleyet and area.

If you have question, comments or want to set up a meeting, do not hesitate to contact me at any of the numbers listed in the signature line below.

Best regards,

Mark Holmes
Vice President
Corporate Affairs
Xeneca Power Development

5160 Yonge St.
North York
M2N 6L9

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Pilar DePedro

From: Vanesa Enskaitis [VEnskaitis@xeneca.com]
Sent: June-22-11 11:38 AM
To: Guthrie, Bill (MNR)
Cc: Pilar DePedro; Mutter, Tim (MNR)
Subject: RE: Project on Ivanhoe River
Attachments: Ivanhoe -The Chute PIM EA Foleyet - July6 - French.pdf; Ivanhoe -The Chute PIM EA Foleyet - July6.pdf

Good morning Bill,
Thanks for your message. I wanted to forward you the ads for our Public Information Meeting in Foleyet on July 6, 2011. The ads will run in the Timmins Daily Press .
Please let me know if you have any questions.

Best regards,
Vanesa

From: Guthrie, Bill (MNR) [<mailto:Bill.Guthrie@ontario.ca>]
Sent: Monday, June 20, 2011 4:04 PM
To: Vanesa Enskaitis
Cc: Pdepedro@oel-hydrosys.ca; Mutter, Tim (MNR)
Subject: FW: Project on Ivanhoe River
Importance: High

Hello Vanesa:

Sheila Derasp forwarded your message to me regarding your planned Information Centre for the Chutes project to be held in Chapleau on July 7th. Our feedback following the first information centres held in Foleyet was that there are a number of stakeholders with interests in the Ivanhoe River. Many are residents of Foleyet and cottagers on the lake. In addition there are others who regularly use the area – park visitors, trappers, etc from Chapleau and Timmins. For that reason we suggested that information centres for the Ivanhoe projects be held in these locations to fully inform everyone. At this time of the year there are also many non-resident seasonal clients of the outfitters, parks and other local businesses from the States who have an interest in this area. It would also be beneficial to hold a centre in Foleyet considering the recent developments with the Chutes project.

Bill Guthrie

From: Local Services Board-Foleyet [<mailto:sect@onlink.net>]
Sent: Monday, June 20, 2011 11:34 AM
To: Guthrie, Bill (MNR)
Subject: Fw: Project on Ivanhoe River
Importance: High

Hi Bill,
I guess the people in Foleyet who do not have transportation will be out of luck with this meeting in Chapleau. I am aware that the tourist operators are not pleased that this meeting is being held in Chapleau and I really don't blame them at all. When Xeneca attended here in January none of the tourist operators were able to attend because they were away. You did tell me that you would be meeting with xeneca this week sometime. I hope that you will let them know why it is important to hold a meeting here.
Get back to me.
Thanks again
Sheila Derasp
Secretary

LSB of Foleyet

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

From: Vanesa Enskaitis

To: sect@onlink.net

Cc: Vanesa Enskaitis

Sent: Friday, June 17, 2011 1:25 PM

Subject: RE: Project on Ivanhoe River

June 17, 2011

Hello Sheila,

Stephanie forwarded me your message as I am the project lead for our proposed Ivanhoe River projects.

We have just confirmed the details for our next Public Information Centre regarding the **Ivanhoe River: The Chute** project.

The PIC will take place on July 7, 2011 in Chapleau (location requested by the Ministry of Natural Resources).

We will be taking additional meetings beforehand if requested by local public interest groups.

I have attached the ads that will run in both the Timmins Daily Press and the Chapleau Express and you can feel free to post them.

Please let me know if you have any other questions.

Best regards,

Vanesa

From: Local Services Board-Foleyet [<mailto:sect@onlink.net>]

Sent: Wednesday, June 15, 2011 10:18 AM

To: Stephanie Hodsoll

Subject: Re: Project on Ivanhoe River

Importance: High

Good Morning Stephanie.

I have been approached about the next meeting for your firm to come to Foleyet. It was mentioned at the meeting on April 19th that June would be a better time to have the tourist outfitters in our region to attend, because they are not here in the winter months.

Could you touch base with me, so I can answer their questions.

Thank you,

Sheila Derasp

Secretary

Local Services Board of Foleyet

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MEETING MINUTES AND NOTES

MINUTES OF EA COORDINATION MEETING

The Chute and Third Falls Hydroelectric Projects

Date: Tuesday, April 19th, 2011, 10:00

Meeting Location: MNR Timmins District Office and via Teleconference Call

Prepared By: Pilar DePedro

Attendees:

Ministry of Natural Resources:

- Sandra Dosser, Renewable Energy Coordinator (SD)
- Bill Guthrie, Planning and Information Management Supervisor (BG)
- Tim Mutter, District Planner (TM)
- Kris Vascotto, Planning Biologist (KV)
- Susan Lindquist, Resource Liaison Specialist (SL)

Ministry of the Environment:

- Lianne Kentish, Senior Environmental Officer (LK)

Foleyet Local Services Board:

- Sheila Derasp (SDe)
- Fern Dallaire

OEL-HydroSys Inc. (Environmental Approvals Consultants):

- Tami Sugarman, Environmental Approvals Senior Advisor (TS)
- Pilar DePedro

Natural Resource Solutions Inc. (Biological Consultants)

- Dave Green
- Brett Woodman

Via Teleconference

Ministry of the Environment:

- Ellen Cramm, Environmental/EA Coordinator (EC)
- Ed Snucins, Surface Water Specialist (ES)

Ministry of Energy and Infrastructure:

- Helen Kwan, Senior Policy Advisor REA Office (HK)

Department of Fisheries and Oceans:

- Alan Rowlinson, Fish Habitat Biologist (AR)

Transport Canada

- Haya Finan, Environmental Officer (HF)

Natural Resources Canada:

- Caitlin Scott, Junior Policy Analyst (CS)

Xeneca Power (by Teleconference)

- Dean Assinewe, Aboriginal Relations Liaison (DA)

Regrets

Dave Bell, Project Manager, Canadian Environment Assessment Agency
Mike Shaw, Environmental Assessment Officer, Environment Canada
Ed Laratta, Mike Vance, Xeneca Power

Attachments	Project Descriptions for The Chute and Third Falls Waterpower Developments (document issued in advance of meeting)
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The following Meeting Minutes were recorded by Pilar DePedro of OEL-HydroSys Inc. The notes reflect the understanding of discussions held during the meeting. Based on comments received from the Draft distribution, these minutes have been adopted and are considered accurate.

Distribution of these meeting minutes to anyone other than a participant, or an invited participant requires prior approval by all those on the distribution list.

Item	Item Description	Action by
1.0	<p>Introductions and the Environmental Assessment Process</p> <p>Meeting objectives</p> <ul style="list-style-type: none"> • to initiate the discussion surrounding information that has been distributed to regulators for the proposed project; • to identify applicable legislation and permitting requirements early in process; • to identify any gaps in data analysis; • to open dialogue <p>OEL (TS) introduced The Chutes and Third Falls projects and outlined that the proponent would separately assess each project through the Class Environmental Assessment for Waterpower Projects. Additionally, it is expected that the projects will trigger the requirement for a Federal Environmental Screening due to law list triggers (<i>Navigable Waters Protection Act</i> and the <i>Fisheries Act</i>). As a result it was the intent of the proponent to harmonize the Provincial and Federal processes into one environmental assessment planning process for each site and to produce a single environmental report for each project which would address the requirements of both the provincial and federal processes.</p> <p>OEL (TS) briefly explained the Class Environmental Assessment (EA) for Waterpower, noting this was a proponent driven process, as such there is no formal approval granted. The Ivanhoe River is considered a managed waterway and as a result the proponent will follow the planning process for a new site on a managed waterway. TS added that there is a 30 day review period once the final Environmental Report is released (Notice of Completion), and that the review is open to regulators and the public.</p> <p>MOE (EC) added that if there are objections to how the proponent conducted the EA, a request for a Part II Order under the Ontario Environmental Assessment Act can be filed during this period. If resolution is not achieved, the Director of the MOE will issue a decision either denying the request, directing the proponent to correct deficiencies or granting the request for a Part II order.</p> <p>OEL assumes the role of writing the EA document and agency consultation; public and aboriginal consultation aspects of the projects are undertaken by Xeneca staff directly.</p>	

	<p>MNR (TM) led debate as to what is a managed and unmanaged waterway. These projects are considered to be on managed waterways based on the OWA Class EA as the water body is part of a water management plan and there is an existing structure on the river; the Ivanhoe Dam. The MNR would prefer it to be classified as unmanaged due to the distance from the existing MNR dam(s) to the project sites, only minimal changes will be noted and it will be difficult to measure flow changes. OEL (TS) suggested this discussion be deferred to the Operating Plan meeting scheduled for the end of April.</p> <p>OEL (TS) provided a synopsis of each site noting The Chutes transmission line is 26kV and Third Falls is 115kV according to the project description. The Waterpower Class EA classifies powerlines under 115kV capacity to be exempt from assessment. The MNR Class EA for Resource Stewardship and Facility Development (RSFD) process may be required to assess the transmission line component for The Chute. MNR (TM) noted that further discussion needs to take place to determine which transmission route would be reviewed under the Waterpower Class EA and which route may be assessed under the RSFD Class EA. The processes can be harmonized, but further discussion will need to take place to determine how the consultation and evaluation components can be merged. OEL (TS) added that the proponent may be proposing a separate EA for the transmission corridors. TM mentioned that in order to initiate the RSFD Class EA for the Chute transmission line, the district would need to receive a formal request for all the required permits and approvals (easement, work permits, forest resource license, etc) along with a formal project description. TM mentioned that the district would be willing to assist Xeneca with this application if required.</p>	<p>Determine project waterway classification at OP meeting end of April.</p> <p>Xeneca to decide on RSFD Class EA for transmission corridor and reissue NOC as required.</p>
2.0	<p>Proposed Project Schedule</p> <p>OEL (TS) explained that Xeneca would move forward with issuing a Draft Environmental Report in June 2011. Under the terms of the FIT contract commissioning is set for April 2015, with start up to be initiated towards the end of 2014. TS acknowledged that there may be gaps in the data collected to date and that these would be identified once the technical reports (including biology, archaeology, hydrology and operating plans) had been reviewed by the agencies/ministries. CD copies of the biology reports and operating plans were given to MNR (BG) and MOE (LK). TS added that Xeneca would commit to completing any further studies as required prior to the permitting stage for the project, noting that while it was a somewhat unconventional approach to EA planning, the schedule necessitated this approach.</p> <p>MOE (EC) sought clarification as to whether the data gaps identified in the draft report would be addressed in the final report. TS replied that Xeneca had already completed field investigations and that it was hoped that at the draft review that the agencies/ministries would dictate the requirements for any additional investigations. TS added that Xeneca would identify clear commitments to complete any outstanding studies in the final Environmental Report but may not have additional data by this time. MOE (EC) commented that this approach may not meet the requirements of the</p>	<p>OEL to inform Xeneca on consultation requirements.</p>

	<p>Class EA process as studies are to occur after the EA is scheduled for completion. MOE (EC) and MNR (SD) stated that there remains a public consultation requirement to present the findings of these investigations which could otherwise lead to a Part II order request.</p> <p>TS acknowledged that any commitments made by the proponent would have to be honoured otherwise an amendment to the EA or possibly a new EA may be required.</p>	
3.0	<p>Public and Aboriginal Consultation</p> <p>MNR (TM) led discussion on to public and aboriginal consultation and there was a general opinion from the agencies; MNR and MOE specifically that additional engagement was needed along with consultation plans. MNR (TM) and the FLSB (SDe) requested additional Public Information Centres (PIC) in Timmins, Chapleau and Foleyet. MNR (BG) will provide advice on which newspapers to advertise in and when, BG further suggested a two-week minimum notice to ensure an accurate representation of the local and seasonal population. FLSB (SD) stated that Xeneca had discussed the possibility of a PIC in May to ensure engagement with seasonal residents and she requested that all notices be sent to her for distribution.</p> <p>MNR (TM) stated that they were present at the two PIC's held on January 13th and 27th and that the project details seemed to be very limited. MNR was concerned that the information available may not be considered adequate in terms of public consultation requirements.</p> <p>TM inquired as to the status of road upgrades as none have been mentioned to date with respect to the Third Falls project description. For both sites, all road construction, road upgrades, water crossings, and transmission routes must be addressed through the Waterpower Class EA and also require public consultation. (Exception may be the transmission corridor for the Chutes which may be addressed through the RSFD Class EA as discussed above)</p> <p>Xeneca (DA) joined in via teleconference, provided a summary of aboriginal consultation to date and what aspects would be addressed in the consultation plan. DA agreed to distribute the aboriginal consultation plans to the regulators. DA identified the following aboriginal communities involved in the Ivanhoe River projects, so far he has held preliminary meetings with the first three;</p> <ul style="list-style-type: none"> • Chapleau Cree First Nation • Chapleau Ojibway First Nation • Brunswick House First Nation • Flying Post First Nation • Taykwa Tagamou First Nation • Métis Nation of Ontario • Wabun Tribal Council <p>MNR (SL) noted that the Mattagami First Nation should also be included in the aboriginal consultation process along with Moose Cree First Nation</p>	<p>OEL will inform Xeneca on requested additional PIC's. Xeneca has promised to the Foleyet LSB a PIC in Foleyet in May 2011.</p> <p>MNR (BG) to forward names of newspapers to place project notices in.</p> <p>OEL to forward Aboriginal and Public consultation plans to agencies and regulators for review.</p> <p>Xeneca to conduct Aboriginal community consultation with other communities mentioned herein. Documentation is required for all meetings with FN and other Aboriginal groups.</p>

	<p>and the Michipicoten First Nation. SL asked if there was any documentation confirming which First Nations had agreed to be represented by the Wabun Tribal Council. DA responded that there had been discussion of having band council resolutions but no documentation has been forwarded yet to Xeneca. SL stated that this documentation was critical to meet consultation requirements and that some of the identified communities have expressed a lack of engagement with Xeneca. OEL (TS) acknowledged this and suggested meetings to be undertaken with these communities.</p>	<p>Xeneca to provide MNR with documentation in relation to Wabun tribal Council representation of other groups.</p>
4.0	<p>Legislation, permits and approvals</p> <p>MOE (LK) and MNR (TM) stated that the Potential Approvals List provided in the project description was likely insufficient. MNR (TM) mentioned that the project descriptions, as drafted, did not contain enough detailed information for MNR to make a proper assessment as to the required permits and approvals. MNR requires more detailed information on almost all aspects of the project from set-up and construction to operation. [For example, which access roads need to be upgraded? Do any new roads need to be built? Where? To what standard? (ideally 1:20,000 scale mapping of new roads and road upgrades is required) Are any new water crossings planned? Any upgrades to existing water crossings? Where? (again, 1:20,000 scale mapping required) Will the proponent require clearing for construction set-up? If so, where and how large of an area? Where will the transmission line run? (1:20,00 scale mapping required) Will any access roads or water crossings need to be built or upgraded along the transmission corridor etc? All this needs to be addressed up front if the proponent wishes to incorporate all EA review requirements into their Waterpower Class EA. If this is not done satisfactorily, additional review and consultation may be required beyond the Waterpower Class EA] Ministries and Agencies present confirmed they would provide the project team with information for applications and the supporting documentation requirements once more detailed project information has been provided.</p> <p>The FLSB (SDe) raised concerns about water levels since Foleyet's sewage treatment facility may be impacted by loading rates which in turn could affect water quality. A guarantee was sought that there would be no impacts to the community's potable water supply as a result of this undertaking. SDe produced a letter to Xeneca outlining the FLSB concerns which had been sent to the proponent. MNR (TM) stated that operations of the Ivanhoe Dam will not likely be altered in support of this project. However, as per the provisions of the Mattagami Water Management Plan, the proponent does have the ability to request an amendment to that plan to request a change in the operations of the Ivanhoe Dam. The request will be reviewed by the Mattagami WMP Standing Advisory Committee and if acceptable, may require further analysis and/or public and Aboriginal consultation. However, based on a preliminary consideration of this, it is unlikely that MNR would support such a request. OEL (TS) stated that the zone of influence of the project would be clearly identified in the Operating Plan and through HEC-RAS modeling.</p> <p>It was agreed that the MNR Site Information Package (SIP) will act as a living document containing natural heritage values and concerns for the project area and the project team will be notified of any changes during the</p>	<p>Xeneca to provide; Construction Plan including a Sediment and Erosion Control Plan; access roads and transmission line corridor mapping to agencies and regulators.</p> <p>Agencies present will provide information on supporting documentation for permit applications.</p>

	<p>with baseline monitoring guidelines. OEL (TS) responded that due to the tight deadline spring spawning will be missed. ES suggested a review of the work plan in order to improve design for sampling otherwise it will have to be repeated. ES stated that Lake sturgeon should be assessed this year due to annual variability, one year would not be sufficient.</p>	
5.0	<p>MNR requirements for permitting, field studies, other</p> <p>TM and KV identified key study and permitting requirements in support of this undertaking. MNR offered to work with NRSI and Xeneca to build sampling program that would provide adequate baseline information in the time allotted. Fisheries assessments (RIN sampling for biodiversity assessment, focused studies for population assessment), detailed aquatic habitat assessments including main stem and incoming tributaries impacted by the area of inundation and zone of influence (critical habitats for fish community), benthic invertebrate sampling (taxa richness/density, invertebrate drift), aquatic vegetation community assessments (enhanced species lists), channel characteristics (geomorphology and substrate analysis) as well as continued assessment of riparian habitat, determination of temperature regime analysis of main stem and tributaries.</p> <p>TM inquired as to whether the project description would be revised and re-issued, noting the Ministry had some concerns about the content of the document and the process being followed. OEL (TS) noted that Xeneca would be informed of comments on project descriptions and that it would not be re-issued, revisions would be provided as an addendum distributed to everyone who received a copy of the PD if it was necessary. TM stated that MNR would provide comment on the PD's within the following few weeks.</p> <p>MNR (TM) stated that he had been contacted directly by Xeneca regarding permits and approvals for geotechnical work and would like clarification as to whether this will be included in the Waterpower Class EA or if it is separate. If it is separate, it may trigger the RSFDP Class EA. Additional clarification regarding plans to conduct geotechnical work is required from Xeneca before any permits and approvals for this work can be issued. OEL (TS) responded that OEL was not aware of this plan and that she would inform Xeneca of what was required to do this investigative work. A construction plan for the building of the project might be available in time to incorporate it into the ER, however, TS would have to confirm this with Xeneca.</p> <p>TM also noted that the projects do not yet have Site Release approval.</p> <p>Other MNR permits and Approvals (TM):</p> <p>1. Permits and Approvals – Public Lands Act (PLA)</p> <p>Construction phase:</p> <ul style="list-style-type: none"> • "Sites with capacity over 75kW" will require Crown lease during the construction phase – survey required for lease (structural foot print) • Insurance and financial security required 	<p>MNR to provide comment on PD's.</p> <p>Xeneca to issue addendum in response to MNR review comments on PD.</p> <p>Xeneca to provide a site specific construction management plan (including investigative studies work).</p>

	<p>Work Permits as required:</p> <ul style="list-style-type: none"> • Work in water • Work on shore lands • Clearing aquatic vegetation <p>Once facility built:</p> <ul style="list-style-type: none"> • Water Power Lease Agreement for operation of facility • Insurance and financial security required <p>Other ancillary uses:</p> <ul style="list-style-type: none"> • Tenure required for area of inundation (easement) – right to flood • Transmission lines, roads, water crossings, and temp work camps require applicable work permits and/or occupational authority • Transmission lines require LUP/easement tenure; roads may be held under easement <p>Other general points (PLA):</p> <ul style="list-style-type: none"> • RSFDP EA requirement for dispositions may be embedded into the Waterpower Class EA, however, proponent must demonstrate that they have complied with all applicable EA obligations. • Mining tenure considerations: Lands under mineral rights tenure issued under Mining Act must be respected. For any such lands, MNR will require consent for the disposition of surface rights or otherwise obtain the mining tenure holder's written approval. • All registered documents require approved survey (lease, easement) • MNR retains decision-making/ approval authority for all dispositions regardless of a project's authorization under the EA Act. <p>- Various policies and procedures: Water power site release pol/pro 4.10.05, Disposition of Rights to Crown Resources 4.02.01, Survey Plan Approval Policy 2.06.01, Utility corridor Mgmt Policy 4.10.03, Easements Policy 4.11.04, Crown Land Rental Policy 6.01.02, Work Permit Policy 3.03.04</p> <p>- Require detailed information regarding project design (location, timing, pre-construction, during construction, and post construction).</p> <p>- Currently, the project description (PD) does not provide this information in enough detail for MNR to scope all of the permit requirements.</p> <p>- Further comments will be provided by MNR regarding the PDs.</p> <p>2. Permits and Approvals – Lakes and Rivers Improvement Act (LRIA)</p> <p>Note: Location approval under LRIA can only be granted if the proposal meets the 'test' of upholding the Section 2 of the act. Specifically, sections 2d and 2f must be maintained. This can only be achieved if adequate information is collected pre-construction and adequate post-construction monitoring is proposed to provide an understanding of the net impact of construction/operation of the proposed facility on the zone of influence will be.</p> <ul style="list-style-type: none"> • Sec 14 – Location Approval • Sec 14 – Plans and Specs Approval 	
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	<ul style="list-style-type: none"> • Sec 23.1 – Water mgmt Plan Approval - Note that LRIA location approval will not be provided until all other agency permits and approvals are obtained (e.g. PTTW – MOE and Fisheries Act - DFO) - Location approval may also require specifics of local habitat compensation - Plans and Spec drawings and supporting material must be sealed as final and stamped by the design engineer and "Issued for Construction" - LRIA requires 3 copies be provided to district for approval – recommend 4 copies. - LRIA approval conditions will reference mitigation and monitoring conditions developed during the EA process (provides enforcement mechanism) - Checklist of application information requirements for location and plan and spec approval – will be provided by MNR <p>3. Permits and Approvals – Crown Forest Sustainability Act (CFSA)</p> <ul style="list-style-type: none"> • FRL required for all cleared areas (site footprint, temp construction camps, etc.) • Overlapping license agreement may be required for large scale clearing, particularly the transmission corridor • Use/Maintenance agreement required for use of all forest access roads (Tembec/ EACOMM) • For all clearing of trees, volumes and areas must be provided to MNR by the proponent • Plans to clear the area of inundation? FRL required in addition to volumes and areas. • All merchantable timber cleared must be provided to SFL holder as a first right of refusal. <p>- PD does not address the above points</p> <p>4. Permits and Approvals – Aggregate Resources Act (ARA)</p> <ul style="list-style-type: none"> • If Crown material (sand, gravel) is required for any construction, operation, maintenance activities, then additional permits and EA considerations may be required. Permits and approvals for a "Greenfield" site may take up to one year, possibly longer. • If Xeneca plans to source aggregates from a third party, then that material must come from an approved Category 9 aggregate pit. The holder of the Cat 9 pays royalties to the Crown on the material used, and then charges a commercial rate to the customer. <p>- PD does not address location of commercial aggregate sources</p> <p>5. Permits and Approvals – Water Mgmt Plan (Sec 23.1 LRIA)</p> <ul style="list-style-type: none"> • Ivanhoe River is managed in accordance with an approved WMP – Mattagami River System WMP. • Section 23.1 approval for water management planning may be embedded within the EA process. 	<p>Xeneca to identify source of aggregates.</p> <p>Xeneca's public consultation</p>
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	<ul style="list-style-type: none"> Detailed information must be provided within the project descriptions (Public Information Displays) and the Environmental Report to meet this requirement. Must include at a minimum: <ol style="list-style-type: none"> 1) Description of the zone of influence; 2) Water management objectives for the zone of influence; 3) Development and evaluation of options related to flows and levels; 4) The flows and levels under normal operating conditions for the proposed project. Recommend that Xeneca initiate conversations with the Mattagami Standing Advisory Committee ASAP and provide them a PD as per our SIP meeting Jan 26th 2011 – revise PD to provide details as to the requirements needed to fulfill 23.1 approval and include any pertinent details provided by the SAC. <p>6. Permits and Approvals – Provincial Parks and Conservation Reserves Act (PPCRA)</p> <ul style="list-style-type: none"> Two protected areas are located downstream of the Chute and Third Falls: 1) The Northern Claybelt Conservation Reserve and 2) the Groundhog River P.P Depending on nature of flow manipulations, both sites may be affected Numerous values including Lake sturgeon and cold water species (Brook trout) and other representative vegetative and landform features of the eco-district. Substrate in this area may be particularly vulnerable to erosion as it is within the Northern Ontario Claybelt. PPCRA 16(2) – Prohibits generation of hydro electric development within a park or CR. Some exceptions, but none apply to these two sites. No tenure or rights for flooding (both up and downstream) will be provided within the CR or park. Flooding and/or erosion not permitted. Flooding beyond normal conditions will be determined via Inflow Design Flood (IDF) modeling, which will be required as part of the EA and prior to LRIA approvals. Under no circumstances will any ecological impacts on either the CR or Park be acceptable (ecological integrity embedded in PPCRA legislation). Proponent must fully characterize baseline conditions and be able to demonstrate that there will be no short or long term changes to the natural processes within the terrestrial and aquatic systems within the CR and park. <p>7. Permits and Approvals – Endangered Species Act (ESA)</p> <ul style="list-style-type: none"> Special permits and approvals required under ESA for any impacts to threatened, vulnerable, or endangered species (17.2c). At this time, MNR has no element occurrences of VTE species within the proposed waterpower developments at the Chute and Third Falls. However, additional field investigations may potentially identify such species and additional permitting requirements may apply. <p>8. Permits and Approvals – Forest Fires Prevention Act (FFPA)</p>	<p>record, provided in the EA document, must demonstrate that water management planning was incorporated into all notification and display material.</p> <p>Xeneca to arrange meeting with Mattagami WMP Standing Advisory Committee.</p> <p>NRSI to provide MNR with Natural Environment Characterization report.</p>
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	<ul style="list-style-type: none"> • All development and construction must adhere to the FFPA legislation and associated regulations. • Construction, operation and maintenance of the facility and connecting transmission lines is compliant with the FFPA (e.g. Having operational fire extinguishers for heavy equipment and power saws, machine maintenance programs to clear debris, spark arrestors, smoking and time of day burning restrictions). • Land clearing or other works performed under the Crown Forest Sustainability Act (overlapping license) must be compliant with the Modified Industrial Operations Protocol – a copy of this document will be provided to Xeneca. <p>Agenda Item 5 – List of values and issues of concern:</p> <ul style="list-style-type: none"> • Preliminary values and associated concerns (aquatic values, proposed base flows, socio-economic considerations, etc) for these proposed developments have been detailed in the Site Information Package that has been provided to Xeneca. • Additional comments and/or concerns will be added to the SIP as further detailed site information becomes available. (i.e. site design, operation, alternative chosen for Third Falls). The SIP, as a living document, will act a central repository for MNR EA comments as the process moves forward. • Baseline data requirements and natural environmental concerns as outlined below and previously discussed with Xeneca (including concerns regarding ecological integrity within the Conservation Reserve and Provincial Park) would largely be mitigated by the proponent committing to maintain either a monthly or seasonal minimum flow immediately downstream of the proposed development that is consistent with the 80th percentile exceedence flows. • Some of the more prominent values/ concerns that have been identified to date include: <ul style="list-style-type: none"> - Social/Culture: <ul style="list-style-type: none"> - Aboriginal concerns regarding the maintenance of ecosystem function - Use of river as a traditional travel corridor - Use of river as a recreational canoe route (incl. portages) - Potential disturbance of unidentified Cultural heritage resources (MTC to address) - Access points boat launches, roads, and trails to both sites - Sites used for many years for fishing, hunting, camping, viewing (falls aesthetic value), nature appreciation, etc. - Economic: <ul style="list-style-type: none"> - Forest resources - Use of existing roads and trails, and bridges (resource extraction) - Long est. use by outfitters (fishing, hunting, aesthetics). Current information regarding magnitude of use and impact on local businesses - Existing mining tenure (3rd Falls) - Existing trapping, baitfish harvesting - Natural: <p>The following is an incomplete list of outstanding values/concerns associated with the proposed development – it is recommended that</p> 	<p>MNR to provide a copy of the Modified Industrial Operations Protocol to Xeneca.</p>
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Xeneca refer to the MNR established management objectives for the Ivanhoe River for further details. This list as presented below describes obvious areas needing further development in order to inform the MNR that location approval will not contradict established policy pieces such as our Provincial Parks and Conservation Reserves Act, Ontario's Biodiversity policy, Our Sustainable Future, Ontario's Resource Based Tourism Policy, Ontario's Strategic Plan for Ontario's Fisheries and the MNR land use policy for the site.

1. **Concern for the potential negative cumulative effects associated with both developments**
2. Negative impacts of proposed development/operation on the potential population of a SC species (Sturgeon)
3. Negative impacts of proposed development/operation on the ecological Integrity of the Zone of Influence (ZOI) – including benthic production in support of 1.
4. What will be the impact of the proposed development construction/operation on the ecological function of tributaries – including benthic production, critical habitat areas and native biodiversity within the ZOI?
5. Potential for negative impacts of construction/operation on the biodiversity of terrestrial/aquatic communities. A desired outcome would be maintenance of existing species assemblages for those fish and process reliant on these areas for production
6. Potential for alteration to the thermal regime in the river as a result of construction/operation of the proposed facility.
7. Riparian community (amphibians, mammals, vegetative community) – maintenance of biodiversity and existing habitat – potential for negative impacts as a result of construction/operation of the proposed facility.
8. Potential impacts of construction/operation of the proposed facility on the ecological Integrity of downstream Conservation Reserve and Park – especially as it pertains to SC sturgeon population in Ivanhoe/Groundhog confluence.
9. Preservation of the natural amenities of sites (shoreline, channel, etc) during and after construction of the proposed development.
10. Construction/operation of the proposed facility will require the protection of significant habitat areas – loss of MAFAs, beaver slide, otter slides, etc – strongly impacted by inundation – Significant habitat

Agenda Item 6 – Additional Information Requirements

There are some specific information requirements in addition to those referenced in the preceding sections of these meeting minutes. They include:

Transmission line/corridor

- MNR will require further detailed information with respect to the proposed construction and location of the require transmission lines
 - Current mapping is inadequate: too large scale and information missing (entire route not shown)
 - May be several values impacted: Current data only shows one route.
- Recommend that Xeneca consider alternative to avoid delays in**

the permitting and approval process.

- Current routing shows overlap with both CRs (Vimy CR/ Nova CR) and Park (Groundhog)

Protected area policy allows consideration of utility crossings, but only where there are no reasonable alternatives. Xeneca must demonstrate that they have considered alternatives and why other alternatives are not feasible.

Flow metrics

- Ensure that appropriate data is being used in all flow data analysis. The original applications used data that had been pro-rated from another managed waterway of similar size. Flow data in the project descriptions is not referenced.
- The Ivanhoe River has Water Survey of Canada Gauges installed and data has been collected for many years.
- In addition, MNR has undertaken real-time flow data collection over the last two years at both locations via river profile analysis (River CAT doppler) and installation of pressure transducers. This data has been/will be provided to Xeneca.
- MNR hydrologists will scrutinize all flow metric analysis based on the WSC data as well as the recent data collected at the sites.

From a natural environment perspective, the MNR is anticipating that the following deliverables will be provided as a part of the Environmental Report which can then be used to inform the District prior to location approval. If this is not addressed through the Waterpower Class EA process, it will be required prior to the granting of location approval.

1. Characterize pre-construction productivity, habitat, thermal regime, species assemblage (fish, benthos, aquatic plants) within the zone of influence (special focus on bypass reaches) and any tributaries that will be directly impacted by the proposed development.
Specific components include:
 - a. Describing condition of benthic community and associated annual variation prior to construction.
 - b. Detailed description of habitat in ZOI, affected tributaries and bypass reaches, included sediment characteristics, channel characteristics, bathymetry and flow characteristics.
 - c. Describing the existing thermal regime of the ZOI, affected tributaries and bypass reaches including annual thermal patterns and inter-annual variation.
 - d. Describing existing species (fish, invertebrates, terrestrial and aquatic plants) within the ZOI, affected tributaries and bypass reaches.
2. Characterize stock dynamics of recreationally/commercially important species within the ZOI to determine pre-construction levels. These levels will be used as targets for post-construction.
Specific components include:
 - a. Description of existing Walleye stock, including age, mortality, growth, fecundity and critical habitat areas,
 - b. Description of existing Northern pike stock, including age, mortality, growth, fecundity and critical habitat areas,
 - c. Description of existing Brook trout stock, including age,

- mortality, growth, fecundity and critical habitat areas,
3. Demonstrate no-impact to the ecological integrity of the downstream CR and Provincial Park. Specific components include:
 - a. Characterize the baseline condition within the ZOI downstream from the site, including biodiversity of terrestrial/aquatic communities, stock structure of fish species currently inhabiting the reach and establishing baseline metrics to determine the magnitude and direction of any effect in a pre- and post-construction state.
 - b. Characterize hydrological/physical characteristics of ZOI within the CR including sediment structure/distribution, habitat mapping, and monitoring of thermal regime in a pre- and post-construction state.

As discussed, presented below are several methods that may aid Xeneca in establishing these information requirements. It is understood that planned conversations between Xeneca, NRSI and the MNR will further refine this list to provide a realistic scope of work that can be achieved in the available timelines and achieve the desired outcomes.

1. Benthos collection of bypass reaches and tributaries impacts by the development. Suggest OBBN protocol that includes representative sampling of all habitat types (including present riffle-pool habitat).
2. Seasonal fish sampling within bypass reach to determine what is being lost, and the overall value.
3. Thorough assessment of all tributaries impacted within the ZOI – suggest EPA Wadeable Stream assessment protocol – provides benthos, habitat and vertebrate species information.
4. Amphibian collection throughout area of inundation – suggest drift fencing to determine this – cover boards not adequate.
5. Reptile surveys require rock-flipping to determine presence/absence.
6. Stock recruitment of recreationally/commercially important fisheries (BT, W, NP) including age, mortality, growth, fecundity and critical habitat areas.
7. Determination of compensation areas for lost spawning habitat.
8. Determination of design to prevent thermal impact on trout-bearing waters.
9. Physical/thermal assessment of river – including detailed bathymetry and temperature cycling of sites (including bypass reach) over yearly cycle.

Agenda Item 7 - Consultation Plan

Public consultation

- MNR has concerns regarding the degree and method of public consultation up until this point.
- Public Information Centres have been held in Foleyet, yet none in Timmins and Chapleau where many people that use the river reside.
- Open house material was lacking. Public information boards offered very little detail with respect to site design and/or the proposed water management regime.
- Very little, if any, information was posted with respect to other permit and approvals that are required (e.g. Requirements for WMP

	<p>amendments)</p> <ul style="list-style-type: none"> • MNR has been receiving several letters of concern from the public and some are claiming that Xeneca is not responding to them. • What further public consultation opportunities are being planned for the residents of Timmins, Foleyet, and Chapleau? Will further detailed information be available at future open houses? <p>The MNR recommends that Xeneca work with MNR/MOE more closely to develop a comprehensive public consultation program.</p>	
8.0	Meeting adjourned at 14:40	

NOTES OF MEETING

PROJECT	Xeneca – FIT Projects	DATE	20/04/11
DATE OF MEETING	15/04/11	FILE NO.	
LOCATION	MNR Office – Timmins, ON	PAGE	1 of 5
TIME	9:00 to 15:00	WRITTEN BY	Z. Vorvis
PRESENT	See attached		
DISTRIBUTION	Those present and		
PURPOSE	Present approach used for Operations Plan, clarify MNR/MOE requirements, and briefly present the eighteen projects.		

<u>Item</u>	<u>Action By</u>
<u>Introduction</u>	
Mary Ellen - all in one room to share info and large team involved. A large task to do this many projects at the same time. Uwe - presentation introduction. To discuss hydraulics/hydrology and engineering in this meeting. End of April is meeting on biology, etc. Started presentation at 9:30.	
<u>Questions</u>	
Patrick Morash inquired why the OWRA Permit To Take Water (PTTW) was not listed on one of the presentation slides. Uwe answered that Xeneca is aware of this requirement and are currently applying for PTTW for McGraw Falls. Working to cover draft guidelines from January. Presentation slide was not meant to be a complete process description.	
Bob Metcalf asked for clarification of the “run-of-river” definition being “no man-made downstream effects”. Uwe answered that essentially the definition Xeneca is using means water in equals water out. Nava added comments regarding the routing effect that will have short term effects on flowrate downstream compared to upstream flowrate. Richard added that the headponds were generally small and that little to no attenuation would occur as the plants would adjust to compensate and generally maintain headpond levels. If headpond levels are not rising or falling then inflow equals outflow. Mary Ellen added that it is important to have clarity of terms/definitions because terms have different inherent meanings to engineers, hydrologists, biologists, etc.	
Sajjad questioned how the LiDAR survey and bathymetry were tied-in. Uwe answered that LiDAR was done by air, bathymetry done on ground and tied in to LiDAR beyond bank line.	
Sajjad asked how long Xeneca will hold water when flowrate is below Q_{Tmin} . Uwe answered that the storage capacity varies and has been calculated at each site. Examples are Big Eddy and Chutes have no storage where others such as Four Slide have more.	
Bob Metcalf asked about the selection of the definition/boundaries of the seasons. Why is boundary between winter and spring on falling limb of spring melt? Richard answered that dividing line is somewhat subjective and can be revised if necessary, but by moving either way one of the other seasons (summer or spring) becomes very short or is lost. Steve McGovern added that the boundaries work well from a biologist point of view from a spawning window perspective.	
Bob Metcalf asked about the variability shown in the hydrograph. Uwe answered that natural variations are represented. Sajjad added that plotting with linear scale can be more useful sometimes than the logarithmic scale Xeneca has plotted however acknowledged the benefit	

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Item	Action By
of presenting the results in the manner shown. Uwe advised that data is available for MNR use and plotting as required.	
Sajjad asked how flow data was reduced/used. Nava answered that daily flow data is used, not averaged to monthly, etc. Sajjad asked for daily data. Nava will provide.	Xeneca
Sajjad asked how Xeneca is determining natural lake level fluctuations. Uwe answered that Xeneca is doing some modeling as there is very little data available. Sajjad asked about installing transducers. Nava answered that transducers were installed at lake connected projects last fall and a flow measurement was taken at the same time.	
Bob Metcalf asked what modeling is being done and how is the field data being used to validate. Nava answered that have not reached the modeling stage yet but currently collecting data. With inflow, lake and outflow it is a simple reservoir calculation. Will use synthesized flow and WSC gauges for inflow. Bob advised there is a PHD thesis paper written on lake level modeling, etc. Uwe asked for paper. (Note: Steve McGovern provided a copy of the paper to Richard during a meeting intermission).	
<p>Bob Metcalf asked what the split was between close coupled and bypass arrangements for the eighteen projects. Questioning the differences in habitat effects/loss when riffles become ponds, etc. Uwe answered there is approximately a 50/50 split between close coupled and bypass arrangements but that this can be confirmed. Uwe also indicated that Xeneca is not debating that either arrangement will need to be assessed for impacts on habitat. EA process is for determining what these are.</p> <p>Uwe noted that there were some projects where the decision between close-coupled and bypass arrangements had not been finalized yet.</p> <p>Brian Grantham asked how many sites will have both the close coupled and the bypass concepts brought through the EA process and whether sufficient biological information would be provided for both. Uwe explained that options are being kept open where necessary for engineering reasons. Preference is to settle on one, but will carry options through the EA process if necessary. In that case there would be the need to consider mitigation through the EA for both.</p> <p>Uwe discussed Wabageshik case study where both options existing however indicated that due to the gravel beds upstream of the layout proposed in the original submissions which provide valuable spawning habitat it was likely that a close-coupled arrangement located upstream of the gravel beds would be selected and brought forward.</p>	
Sajjad asked what method was used to map flow affected areas downstream of the projects. Uwe answered that a qualitative assessment was made based on whether the projects discharged in lakes or had lakes within a short reach downstream, The secondary assessment was to assess downstream tributary and river profiles. Qualitative measures used, tributaries need to provide 10% or more of flow, if grades level off the effects above are expected to be negligible. Not necessarily zero effect, but negligible.	
Sajjad asked whether Xeneca had discussions with Hydromega on Kapuskasing River regarding modification of flows, etc. Uwe answered there has been communication back and forth but details have not been discussed yet. This is an ongoing stakeholder engagement.	
Finished presentation at 11.	
Todd Kondrat asked how inundation areas were calculated pre/post construction. Uwe/Nava answered that detailed topography was used and inundation areas were mapped for 1 in 2 year, 1 in 100 year, and long term average flow cases.	
Bob Metcalf asked about minimum turbine flow, when/how will it be determined, and how is habitat considered. Uwe answered that Q_{Tlimit} flow is determined partially in discussion with MNR, from 65% up and that habitat is one of the considerations for minimum turbine flow. Richard added that unit selection and number of units is partially based on these constraints.	
Bob Metcalf asked about "zone of influence" and terminology standardization was again discussed. Agreed that MNR zone of influence is same as Xeneca's "variable flow reach".	

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Item	Action By
Bob indicated that, to him, "modified run of river" seems to be the same as 'peaking'. Uwe said that Xeneca's definition for modified run of river was borrowed from another source. Xeneca to provide source for definition (terminology standardization required). In Xeneca's opinion, "peaking" is a much longer term storage.	
Steve McGovern asked if Xeneca plans to field truth simulations, confirm model and gather pictorial representation of the actual condition for given lines on a plan? Uwe related experience at McGraw where this was done, will look to do this year for these projects as well.	
Mark Orton (Hatch) provided an overview of approach to synthesize flows for all of the sites.	
<p>Questions for Hatch from Bob Metcalf, answers by Mark Orton:</p> <ul style="list-style-type: none"> - Spatial interpolation approach used? Yes. - Discriminate function analysis done? Yes, only to see that land use and water flow are properly represented. - Flow record periods used? Shortest was approximately 20 years, longest over 80 years. Lardner Raven 14 year period available, extended to 38 years using flows from a nearby gauge. - Were older flow records looked at from a climate change/different flow regime perspective? Regional flow records were subjected to statistical screening. Records were rejected if they were more than a specific percentage from the mean. - Were rainfall runoff models run to fit into data and account for possible uncertainty of river flow records? Where there are fewer flow stations, can use other stations at same longitude. Flows vary laterally but don't vary as much longitudinally. - Were flows monitored at site used in models? Yes where gauge installed several years ago. Other gauges are too recent, likely would not have correlation on a day to day record because of isolated rainfall, etc. Nava added that we do plan to use data from level monitors installed last fall to confirm synthesized hydrologic flows. Mark added that there is a need to correlate shorter term flows with longer term flows and this could be difficult. 3 year or 50 year data used for flow synthesis will have different results. Uwe closed that Xeneca's intention is to use data that is available to the best of our abilities. 	
Richard mentioned that Wes Dick (Canadian Projects Hydrological Engineer) on phone for any HEC-RAS questions if necessary. None asked.	
Sajjad is satisfied with the methodology of the hydrology work done to date.	
Sajjad asked about storage capacity of projects beyond one day. Uwe answered that there are no benefits from OPA for extended storage, only benefit from daily storage. Hours of peaked operation shown in graphs in project operating plans. Range from 2-10 hours depending on site.	
<p>Sajjad asked whether the instantaneous flow data was used to determine return period flood flows.</p> <p>Richard indicated that the instantaneous peak flow data from the WSC gauging stations was used and transferred to the project sites similar to the approach used for determining the synthetic flow series.</p>	
Sajjad asked how the extent of inundation was modeled. Uwe answered that LiDAR data was used to model inundation level accurately. Learned from past experience using standard topography data wasn't accurate enough.	
Sajjad discussed LiDAR water penetrating technology as option to bathymetric surveys that were carried out. Nava indicated that Xeneca had discussions with suppliers regarding this technology, however costs were prohibitive and the availability of this equipment was an issue	

Item	Action By
<p>(i.e. booked all over the world). Xeneca indicate that they would share the cost estimates provided for this technology with MNR if they were interested.</p> <p>Potential concerns regarding this technology were also noted as turbidity can impact the effectiveness of the system.</p>	
<p>Bob Metcalf how the LiDAR data was tied in to geodetic. Uwe/Nava responded that work to tie to geodetic is critical step and has been done. Otherwise LiDAR is just a relative survey.</p>	
<p>Sajjad asked about the use of Google Earth to assess river profiles. Nava returned to slide showing a Google Earth image of one of the project sites and answered that the flow rate was known for the date that the image was flown. The Google Earth image was essentially used to help delineate the river banks at the time. River bed elevation of the river may be higher/lower but good calibration to flood flows was achieved.</p>	
<p>Bob Metcalf asked whether the estimated HEC-RAS river cross section data used upstream of project could be used for downstream erosion modeling, etc. Uwe answered that Xeneca has detailed topography downstream as well and will use actual cross sections were available. Synthesized cross sections are only used for upstream inundation mapping. Richard added that downstream water levels won't be outside of natural fluctuations, just timing changes. Bob added that extent of time of pulses can affect loading, etc.</p>	
<p>Sediment trapping/starvation issues were discussed. Uwe talked about Kapuskasing fine sediments and mobility of fine silts. Serpent river discussed where it is basically a rock channel but there are a lot of sand backs on edges and in meanders.</p>	
<p>Project summary sheets were discussed. Ed suggested that summary tables could be prepared that show the information for all the projects in one location. Xeneca will do this through correspondence, building on existing proposed downstream parameters table. Uwe added that Xeneca is aware of issues from the work carried out and can summarize issues at each site based on stakeholder consultation, environmental work, etc. Patrick added that they would like to see summary of FN consultation/engagement as well.</p>	Xeneca
<p>Sandra Dosse mentioned EA, LRIA Section 14 requirements. Expectation is that flows and levels are being reviewed/discussed during the EA process. EA flow/level discussions will form the basis for LRIA/location approval/WMP discussion. Also, Operating Plans are meant to be dropped into WMPs. Patrick added that MOE involvement at same time will be helpful because MOE is involved later in PTTW/OWRA and will want to make sure that MOE is in agreement with MNR agreed flows/levels. It was noted that information required for PTTW is more than in the past. Information submitted through MNR is meant to be flipped over to MOE nearing end of that process. Patrick advised that there are two permits required - short term for construction and another for operating. Sajjad advised that the EA should be used as a technical appendix to the PTTW application.</p>	
<p>Jim Beal (thru Mary) discussed MNR triage/review time process and wanted to know from Xeneca which projects/timing is required to get workload and process resolved. Ed Laratta will send priority list next week with other deliverable. The priorities will be based on where there are less public and environmental issues. List will have priorities and ideal timelines. Current priority list involves 3 phases of projects with 2 months between each phase.</p>	
<p><u>Closing Comments</u></p>	
<p>Patrick – helpful, have many other projects on table besides these 18, will do everything possible to adhere to timelines, but there is a lot of work to do.</p> <p>Denis - developing a MOU between both ministries to reduce duplication of permitting. Working towards that in concert with OWA.</p> <p>Ed - helpful, question on eastern region representation. MNR will be at 28th/29th meetings (Mary Ellen indicated that the eastern region would rely on the western region to cover their concerns) and MOE has eastern representation on call.</p> <p>Steve - impressed with data presented and meeting was useful, helpful.</p> <p>Richard/Zach - good to get issues on table at start.</p>	

PLEASE NOTE: If this report does not agree with your records, or if there are any omissions, please advise, otherwise we will assume the contents to be correct.

<u>Item</u>	<u>Action By</u>
<p>Todd - helpful information, hopes that there will be the same amount of data on biological side.</p> <p>MOE Timmins - helpful to see the information.</p> <p>MOE Thunder Bay – Flagged that O.Reg 387/04 was major change in 2005 on PTTW process.</p> <p>Sajjad - helpful, answered questions on baseline data collection and modeling methods used.</p> <p>Rich - hydrology information looks good, raw data later for own assessment.</p> <p>Bob - no comment.</p> <p>Nava - helpful, any data/reports that regulators require we are happy to provide.</p> <p>Uwe - tight timeline, know 18 projects is an imposition, open door policy appreciated. EA dialogue is often on perception of lack of information or process, Xeneca is trying to alleviate this.</p> <p>Sandra - next challenge will be 2-day meeting at end of April and bringing district staff up to speed. Talking early and often is the key.</p> <p>Brian - helpful/informative, no comment.</p> <p>Jim - no additional comment beyond triage.</p> <p>Peter - (water supervisor eastern region) would like list of people at table. Good to identify issues up front. Suggested Xeneca look over environmental bill of rights for Mississippi water region regarding a decision that could have gone better at EA stage instead of PTTW stage.</p> <p>Paula – questioned whether bringing options through an EA was acceptable. Uwe advised that there are some that we want to keep alternatives. Paula has not seen a project that did this in the past, public loses opportunity to comment after the EA process. Sandra added that location approval could be difficult if design not finalized. Sandra also added that Paula will be the designated “one window” access person for Xeneca at MOE for all 18 projects.</p>	

Key Points of April 15th Meeting, 2011

Purpose: to present approach used for Operations Plan, clarify MNR/MOE requirements, and briefly present the eighteen projects.

Actions and key points:

1. Sajjad asked for daily flow data. Nava will provide.
2. Bob advised there is a Ph.D thesis paper written on lake level modeling, etc. Uwe asked for that paper.
3. Uwe - will carry both options through the EA process if necessary. In that case there would be the need to consider mitigation through the EA for both.
4. Discussions with Hydromega on Kapuskasing River regarding modification of flows is an ongoing stakeholder engagement.
5. Steve McGovern asked if Xeneca plans to field truth simulations, confirm model and gather pictorial representation of the actual condition for given lines on a plan? Uwe will look to do this year for these projects.
6. Ed - summary tables for existing proposed downstream parameters could be prepared that show the information for all the projects in one location.
7. Uwe added that Xeneca can summarize issues at each site based on stakeholder consultation, environmental work, etc. Patrick added summary of FN consultation/engagement as well.
8. Information of PTTW submitted through MNR is meant to be flipped over to MOE nearing end of that process. Patrick advised that there are two permits required - short term for construction and another for operating. Sajjad advised that the EA should be used as a technical appendix to the PTTW application.
9. Ed Laratta will send priority list next week with other deliverable.
10. Denis - developing a MOU between both ministries to reduce duplication of permitting. Working towards that in concert with OWA.
11. MOE Thunder Bay – Flagged that O. Reg. 387/04 was major change in 2005 on PTTW process.
12. Uwe - tight timeline, 18 projects is an imposition, open door policy appreciated.
13. Peter Suggested to look over environmental bill of rights for Mississippi water region regarding a decision that could have gone better at EA stage instead of PTTW stage.
14. Paula – questioned whether bringing options through an EA was acceptable. Paula has not seen a project that did this in the past, public loses opportunity to comment after the EA process. Sandra added that location approval could be difficult if design not finalized.

Actions Summary for Xeneca April 28-29th Meeting

Project	Action	Organization	Process/ Complete
18 FIT projects	To notify agencies when documents updated and indicate what changes have been made.	Xeneca	
	Make sure that information given to public was accurate and no significantly changes, and will go out to public again if that is the case.	Xeneca	
	To provide guidelines for road construction & remote fly	MNR(Greg) to KBM/Xeneca	
	Two different inundation areas will be carried through on multi-concept projects if inundation areas vary, and effects on wildlife will be considered for both options.	Xeneca	
	To provide Xeneca process information regarding to approvals	MNR Sandra	
	To contact MNR for program reference information including values layers for SAR species, significant habitat, etc.	KBM / MNR Sandra	
	Need to consider data of hourly fluctuations in Modified Run-of-River	Xeneca / MOE Sajjad	
	Documents shared with agencies in pre-consultation shall not be shared with public as they are not final and subject to change.	Agencies	
Ivanhoe (MNR Kris)	To discuss flows/habitats, seasonal requirements, area of impacts	Xeneca/MNR/NRSI	
	To update PD to show option 2 and the 30 km of inundation	Xeneca	
Third Falls	To have data available for public for mercury.	MNR/MOE (Steve/Todd)	
	Ivanhoe stakeholders requested information on Third Falls inundation	Xeneca	
Wanatango	Terrestrial information including regional/provincial/federal species affected and upstream/downstream concentration of field work.	Xeneca	
Kapuskasing	Discussion on wetland at Kapuskasing and issues of access to lake	Xeneca / MNR	
	To do modeling work to confirm no impact on Hydromegea projects;	Xeneca	
	To provide Water Management goals to Xeneca.	MNR(Dave)	

Kapuskasing	To check the reason why there is big difference of inundation areas between November 2010 report and now	Xeneca	
Middle TWP (MNR Pat)	To use the flow that captures the worst case scenario for the site. Biology and land ownership issues have to be addressed at EA.	Xeneca	
(MNR Rob)	Riffles/pools need to be targeted for cross-sectioning in next phase of bathymetry	Xeneca	
(MNR Dave)	Need to neutralize the impact showing that there is no connection to the lake. MNR added that IDF has to be used for modeling.	Xeneca	
McCarthy (MNR Rob)	To use the Significant Wildlife Habitat Technical Guide for study.	NRSI	
Larder & Raven	To provide HEC-RAS report	Xeneca	
	To work with MNR to agree on operating regime and lake level management.	Xeneca	
	Removal of dam downstream needs to be part of the EA. concrete can stay. Cost of removal is by proponent.	Xeneca	
	To provide a copy of WMP on Petawawa River	MNR Pembroke	
Petawawa	Update PD of Wabageshik w.r.t lake coupled operation	Xeneca	
Wabageshik (MNR Wayne)	Team discussion on Sturgeon task	Bob (Sudbury) & Sandra	
MNR(Bob)	Meeting with Vale/ Land agreement	Xeneca	May 6, 2011
MNR(Wayne)	Discussion on fish spawning area & period, zone of influence, and study area.	Xeneca/MNR/NRSI	
	Discussion on Rainbow trout or salmon with MNR prior to field work	NRSI	
Allen and Struthers	Consultation with Mike Hall	NRSI	
Upper Vermillion	To decide who is doing final level of analysis for the EA to decide on the preferred route option	KBM/Xeneca/ NRSI	
	To notify First Nation about tagging lake sturgeons	Xeneca	
	- French River is Federal Designated Heritage Waterway – is this a consideration or a barrier for this project or in general for waterpower?	OEL	
	Need to consult with Canadian Transportation Agency due to the active railway line crossing.	OEL	

Upper Vermillion	CN – railway line needs to be consulted.	OEL	
	MTO – effect on bridge needs to be consulted.	OEL	
	To consult with Greater Sudbury about intake details and operations. Need to have MOE provide information on the PTTW.	Xeneca/MOE	