
DIRECTION GÉNÉRALE DE L'ÉVALUATION ENVIRONNEMENTALE ET STRATÉGIQUE

Preliminary information on
a project in a northern region

September 2016

*Développement durable,
Environnement et Lutte
contre les changements
climatiques*

Québec 

INTRODUCTION

Sections 22 and 23 of the James Bay and Northern Québec Agreement (JBNQA) establish an environmental and social protection regime for northern Québec. They also address areas of federal and Québec jurisdiction. Areas falling under Québec jurisdiction were entrenched in Chapter II of the Environment Quality Act (R.S.Q., c. Q-2) (EQA).

Chapter II of the EQA sets out the environmental and social impact assessment and review procedures for the territories of James Bay and Nunavik (<http://www.mddelcc.gouv.qc.ca/evaluations/mil-nordique/index-en.htm>). Different procedures apply in southern Québec and the Moinier region.

Projects automatically subject to one of the procedures for northern Québec are listed in Schedule A of the EQA, and projects automatically exempt from the procedures are listed in Schedule B. Projects not listed in either of the schedules, or so-called “grey-zone” projects, must be submitted to the Ministère du Développement durable, de l’Environnement et de la Lutte contre les changements climatiques for a decision as to whether or not they should be submitted to the applicable assessment and review procedure.

No person may carry out or undertake any project referred to in Schedule A of the EQA or any “grey zone” project in a northern region unless a certificate of authorization or an attestation of exemption is issued by the Minister, in accordance with sections 154 and 189 of the EQA. For the purposes of obtaining the certificate or attestation, the proponent of a project must transmit the preliminary information for the planned project to the Ministère.

Transmission of the preliminary information is the first step in the assessment and review procedure. It takes the form of a written notice informing the Ministère of the proponent’s intention to undertake a given project. The attached preliminary information form¹ sets out the information that must be provided to describe the general nature of the project. The information must be clearly and concisely presented and include only those elements needed to enable a clear understanding of the project and its anticipated impacts. The proponent must submit at least ten (10) hard copies of the preliminary information and any supporting documents as well as at least four (4) electronic copies in PDF (Portable Document Format), all in French. The proponent should also submit five (5) hard copies and four (4) electronic copies in English. Additional copies may be requested depending on the scope of the project. The rules for submitting documents in electronic format are contained in the appendix.

Concerning the rules to follow for the filing of electronic documents, we invite you to comply with the instructions presented in the following document produced by BAPE under the southern procedure while making the necessary adjustments :

<http://www.bape.gouv.qc.ca/sections/documentation/DocumPDF.pdf>

¹ The project proponent may also submit the preliminary information in another form.

In addition, as of the entry into force of sections 115.5 to 115.12 of the EQA on November 4, 2011, an applicant for a certificate of authorization issued under this Act must file, as a condition for the issue, a “Déclaration du demandeur ou du titulaire d’une autorisation délivrée en vertu de la Loi sur la qualité de l’environnement (L.R.Q., c. Q-2)” along with any other documents required by the Minister. This requirement does not apply to projects deemed exempt from the assessment and review procedure for which an attestation of exemption is issued. The guide and forms relating to said declaration are available online at the following address: <http://www.mddelcc.gouv.qc.ca/lqe/index.htm>. The applicant’s declaration is confidential and a single copy must be submitted.

Since August 13, 2016, changes have been made to the fees applicable to the requests of authorization foreseen in chapter 2 of the Environment Quality Act. We invite you to look at our web site for more information about these fees :
<http://www.mddelcc.gouv.qc.ca/ministere/tarifcation/ministere.htm> (and clic the link Évaluation environnementale, Milieu nordique).

The preliminary information form, duly completed by the project proponent, and the documents related to the applicant’s declaration and the pricing must be sent to the following address:²

Monsieur Patrick Beauchesne, sous-ministre
Provincial Administrator for the James Bay and Northern Québec Agreement
Ministère du Développement durable, de l’Environnement et de la Lutte contre les changements climatiques
Édifice Marie-Guyart, 30^e étage
675, boul. René-Lévesque Est, boîte 02
Québec (Québec) G1R 5V7
Telephone: 418-521-3933
Fax: 418-644-8222

As soon as the Ministère receives the preliminary information form, the project is entered in the public register provided for in section 118.5 of the EQA <http://www.registres.mddlcc.gouv.qc.ca/#LOE>. The preliminary information and all other documents submitted during the course of the assessment and review procedure may be made available for public consultation.

Furthermore, in accordance with the EQA, the preliminary information is transmitted to the Evaluating Committee, for projects located in the James Bay territory, or to the Kativik Environmental Quality Commission, for projects located in Nunavik. These bodies are responsible for studying the preliminary information and, in the case of projects listed in Schedule A of the EQA, making recommendations or giving an opinion, respectively, on the directives regarding the type, scope and extent of the impact assessment statement the proponent must prepare. In the case of “grey zone” projects, these bodies respectively make recommendations or a decision regarding the advisability of submitting or not submitting the project to the assessment and review procedure and, if the project is submitted, the directives for the project. They transmit their recommendations, opinions and decisions to the Ministère, which makes the final decision to either

² Projects located on Category I lands reserved for the Crees must be submitted to the Regional Environment Administrator, which is a Cree body (see Section 22 of the JBNQA).

exempt the project, in which case it issues an attestation of exemption, or to submit the project, in which case it issues directives.

The Evaluating Committee is a tripartite advisory body composed of representatives of the governments of Canada and Québec and the Cree Regional Authority. The Kativik Environmental Quality Commission is a bipartite body composed of Inuit, Naskapi and Québec government representatives. In the exercise of their functions, both bodies give due consideration to the following principles set out in sections 152 and 186 of the EQA:

- a) the protection of the hunting, fishing and trapping rights of the Native people in the territory;
- b) the protection of the environment and social milieu;
- c) the protection of the Native people, of their societies, communities and economy;
- d) the protection of the wildlife, of the physical and biological milieu and of the ecological systems of the territory;
- e) the rights and guarantees of the Native people in Category II lands;
- f) the participation of the Crees, Inuit and Naskapis in the application of the environmental and social protection regime;
- g) any rights and interest of non-Native people; and
- h) the right of the persons acting lawfully to carry out projects in the territory.

À l'usage du Ministère	Date de réception :
	Numéro de dossier :

1. Project proponent (natural or legal person)

Name:	Les Mines Opinaca Ltée	
Civic address:	1751, rue Davy	
	Rouyn-Noranda, Québec, J9Y 0A8	
Postal address (if different from civic address):	Non applicable	
Telephone:	819 865 4051	
Fax:		
Email:	France.trépanier@goldcorp.com	
Person in charge of the project:	France Trépanier	
Mandatory: Québec enterprise number (NEQ) assigned by the Registraire des entreprises du Québec	1146066668	

2. Consultant commissioned by the proponent (if applicable)

Name:	Non applicable
Civic address:	 ----- -----
Postal address (if different from the civic address):	
Telephone:	
Fax:	
Email:	
Person in charge of the project:	
Mandatory: Québec enterprise number (NEQ) assigned by the Registraire des entreprises du Québec	

Where the proponent has commissioned a consultant, the proponent must submit a resolution attesting that the consultant was mandated to submit this application.

3. Project title

Request to Modify Global CA - Extension of Ore transfert area – Eleonore Mine

4. Project objectives and justification

Indicate the main objectives and the reasons for implementing the project.

See the complementary document

5. Project location

Indicate the location(s) where the project is likely to be carried out, the categories of land (I, II and III), the municipalities and, as a requirement, the geographic coordinates (degrees.minutes.seconds) in GEO NAD83 datum. Include an appendix containing a topographic or cadastral map illustrating the project location. The shape files used to produce the location map must be attached to the electronic version of the preliminary information.

See the complementary document

6. Description of project and alternatives under study

For each phase of the project (site development, construction, operation and restoration, if applicable), describe the principle characteristics of each project alternative, including planned activities, developments and work (clearing, dynamiting, backfilling, etc.). Briefly describe the operating procedures, technologies used, required equipment and material, raw materials, etc. Attach all documents that will help get a better grasp of project characteristics (plan, sketches and drawings, cross-section, etc.).

See the complementary document

7. Environmental components and main constraints to project implementation

For all the sites affected, briefly describe the state of the natural and human environments prior to implementation of the project, as well as the constraints to its implementation.

See the complementary document

8. Primary impacts anticipated

Briefly describe the primary impacts likely to occur in the natural and human environments as a result of each phase of the project (site development, construction, operation and restoration, if applicable).

For “grey zone” projects, provide sufficient information to enable an assessment of the project’s environmental and social impacts with a view to determining whether or not the project should be submitted to the environmental and social impact assessment and review procedure. Explain the planned mitigation and restoration measures, if any.

See the complementary document

9. Public information and consultation processes

The Ministère encourages project proponents to inform and consult the public at the beginning of the planning stage as well as during preparation of the impact statement to ensure more effective integration of the project in the community and environment. Explain the various forms of public information and consultation already carried out or expected to be carried out during the project planning stage, including exchanges with the local populations, in particular the Crees, Inuit or Naskapis, and, if applicable, state the concerns expressed.

See the complementary document

10. Project schedule

Indicate the timetable for implementation of each phase of the project, bearing in mind the time required for each stage of the procedure, preparation of the impact statement, public consultations or information sessions held by the proponent or responsible committees, etc.

See the complementary document

11. Subsequent phases and related projects

If applicable, discuss subsequent phases of the proposed project, as well as any other project likely to influence the project design.

See the complementary document

12. Signature of the applicant

I, France Trépanier, Environment Coordinator, hereby certify that the information provided in this preliminary information form is accurate to the best of my knowledge.



Signature of applicant or authorized signatory

09/03/2018

Date



SNC • LAVALIN

SNC-Lavalin GEM Québec inc.

360 Saint-Joseph

16th floor

Montréal, Québec

Canada H2Y 1P5

☎ 514.393.1000 📠 514.392.4758

Application for amendment of the Overall CA - Expansion of the ore transfer pile – Éléonore Mine

Complementary document

Les Mines Opinaca Ltée
Environment Department
1751 Rue Davy
Rouyn-Noranda, Quebec J9Y 0A8

FINAL VERSION

Prepared by:

Verified by:


Christophe Delcourt, M. Env.
Environment Specialist


Christian Laliberté
Project Director

Our File #: 609918
Our document #: Final Report. – F00

February 2018

Distribution: Ms. France Trépanier, Les Mines Opinaca Ltée

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SNC-Lavalin GEM Québec inc.



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Appendix 1

Appendix 2

This report is composed of xx pages, including the appendices, and may not be reproduced in whole or in part without the authorization of SNC-Lavalin GEM Québec inc.

Introduction

Following the environmental and social impact assessment and review process by the Comité d'examen (COMEX - Review Committee), the Ministère du développement durable, de l'environnement de la faune et des parcs (MDDEFP) authorized the Éléonore mining project on November 10, 2011 by an overall certificate of authorization (Your Ref. : 3214-14-042) under section 164 of the Environment Quality Act (EQA).

On February 5, 2013, the MDDELCC issued an amendment to the Overall CA for the increase in the capacity of the waste rock pile, the access road to the tailings facility and the addition of the ore transfer area. This amendment to the Overall CA would allow, in particular, the development of an ore transfer pile 75 m west of the production shaft, with a capacity of 45,000 Mt, maximum area of approximately 3,990 m² and a maximum height of 9 m.

Since the start of production, the ore transfer pile has been used to store ore temporarily during concentrator shutdowns or to supply the concentrator during shaft production shutdowns. This pile also serves as the entrance to the concentrator for ore extracted via the ramp and not via the shaft. However, the pile's storage capacity has decreased considerably following the construction of three access ramps to this pile, used for the transport of ore from the different supply sources on the mine site (production shaft and ramp). To mitigate this shortage of space, it is planned to change the configuration of the pile without altering its authorized capacity.

In response to the request for an opinion transmitted by Les Mines Opinaca Ltée (MOL) on April 25, 2017 to the *Direction de l'évaluation environnementale des projets nordiques et miniers* (DEE - Northern and Mining Projects Environmental Assessment Directorate) concerning this amendment, the DEE called for an application for amendment of the Overall CA to be submitted for the expansion of the ore transfer pile.

This report is a complementary document to the form entitled "Renseignements préliminaires pour la réalisation d'un projet en milieu nordique" (Preliminary information for the performance of a project in a northern environment). It describes the information that could not be included due to the lack of available space and following the numbering and terminology used in the form to facilitate the link between the two documents.

1 Project initiator

See the form.

2 Consultant mandated by the project initiator

Not applicable.

3 Project title

See the form.

4 Project objectives and justification

4.1 Context

The ore transfer pile is currently used to store ore temporarily during concentrator shutdowns or to supply the concentrator during shaft production shutdowns. This pile also serves as the entrance to the concentrator for ore extracted from the mine via the ramp. The construction of three access ramps to this pile, used for the transport of ore from different sources, has considerably reduced the capacity of the pile, which is no longer sufficient for the requirements.

To meet operational needs, it is necessary to change the configuration of the pile by increasing its area from 3,990 m² to 5,500 m², without modifying the capacity authorized by the MDDELCC, which is 45,000 Mt (amendment to the Overall CA of February 5, 2013).

4.2 Project extent and justification

The extent of this application concerns the expansion of the ore transfer pile, which will increase in area from 3,990 m² to 5,500 m².

As mentioned in the overall application for amendment submitted in June 2012 and for which the MDDELCC issued an amendment to the Overall CA on February 5, 2013 (Your Ref.: 3214-14-042), the ore transfer area is necessary to maintain and secure the production rhythm between the shaft and the concentrator.

The ore stored on the ore transfer pile comes from the production shaft and the transition pile. The ore transfer pile allows sporadic decoupling of production in the production shaft from concentrator operations, more specifically, hoisting and crushing. It allows storage of the ore and continuation of shaft operations in case of a concentrator shutdown. Conversely, the pile allows the supply and continued operation of the concentrator in case of a production shutdown in the shaft. Moreover, the pile also allows the concentrator to be supplied with ore extracted via the ramp.

As mentioned, it proved necessary to build three access ramps to facilitate transport from different sources, and the expansion of the existing pile is necessary so as not to compromise current operations.

The expansion of the ore transfer pile, as proposed, will thus make it possible to maintain and secure the current and future production rhythm.

5 Project location

The Éléonore property is situated in the Nord-du-Québec administrative region, in the territory of the Eeyou Istchee James Bay Regional Government, on Class III public lands. It is located northeast of the Opinaca Reservoir, approximately 190 km east of the Cree community of Wemindji.

The ore transfer pile expansion work will be carried out within the industrial zone of the mine site in an available free space contiguous to the existing pile.

The location of the pile on the mine site is shown on the map in Appendix 1.

6 Description of the project and the variants

The plan view of the proposed ore transfer pile expansion, which will have a total area of 5,500 m² once the project is completed, is presented in Appendix 2. The space available in the industrial zone located to the south, contiguous to the existing pile, will be used to allow its expansion. The configuration of the pile will be modified slightly but its location will remain the same. The additional area of this pile will remain within the existing industrial zone. No additional virgin land will be impacted.

The increase in area will make it possible to provide the necessary space for the development of the three access ramps while retaining the required storage capacity of 45,000 Mt. The maximum height of the pile will remain at 9 m, as provided in the initial concept. The new layout will also be built on an impermeable surface (impermeable high-density polyethylene membrane protected by a layer of sand and a layer of waste stone). Management of runoff water from the pile remains unchanged, meaning that this water will be captured, transferred by gravity to the underground mine, and then ultimately sent to the industrial water treatment unit (IWTU).

The pile's current operations will remain the same. Loading and unloading of the pile will be performed by scoop trams and trucks.

The pile expansion work will include: 1. Excavation of the land in the zone to be expanded and preparation of the foundation layer; 2. development of the impermeable surface and installation of the drainage system; and 3. development of the three access ramps.

This is the option best suited to maintain and secure the current and future production rhythm, given the space available in the industrial zone. Any other variant would necessitate the use of spaces farther away or located outside the industrial zone.

7 Components of the environment and main constraints on performance of the project

The main components of the environment are described below. No component of the environment presents a constraint to the expansion project.

7.1 Topography and hydrography

The land where the pile expansion will be installed is currently used as a machinery traffic route for access to the backup shaft. This land is located within the industrial zone of the mine site and the runoff water is currently captured by a surface drainage network, collected in a pond and pumped to the IWTU for treatment in accordance with the industrial runoff water management performed on the site and authorized by the MDDELCC (Your Ref. : 7610-10-01-70084-81)).

The pile site is located nearly 100 m from Stream No. 4. This stream has its source in a string of two small lakes located nearly 550 m upstream. The mouth of this stream is found approximately 225 m from the pile, in the Opinaca Reservoir. The shores of the Opinaca Reservoir are located approximately 150 m from the pile.

7.2 Land occupancy

No vegetation is found on the site concerned. This is land already cleared and grubbed, and graded with fill. The driving surface is composed essentially of 0 to 25 mm gauge crushed stones.

7.3 Fauna

Given the current use of the site, few wildlife species are likely to be present in the sector planned for expansion of the pile. Given the nature of the site, no threatened or vulnerable wildlife species, and no habitat of any of these species, is likely to be found on the site planned for expansion of the pile.

No fish habitat will be affected by this work.

8 Principal apprehended impacts

The pile will be expanded in an area already allocated and used for mining operations. Once expanded, the pile thus will not increase the project's overall footprint.

Given that the location and the storage capacity remain the same and that only the area is slightly increased compared to the current situation, the anticipated impacts are considered very low. The apprehended impacts more specifically concern air and water quality and are described below.

8.1 Air quality

Considering the following points, no additional significant impact is expected on air quality following the expansion of the pile. Indeed, the capacity of the ore transfer pile will remain the same, at 45,000 MT, and its maximum height will remain at 9 m. In addition, the current ore handling operations on the site will remain the same. The number of loading and unloading operations performed will remain in the same order of magnitude.

The location of the ore pile will be unchanged and the number of loading and unloading operations performed on this pile will remain in the same order of magnitude as now. No increase in exhaust gas emissions and dust emissions is anticipated following the expansion of the pile. These emissions could even decrease, because the increased capacity of the ore pile will reduce temporary storage of ore on the transfer pile of the ramp and will reduce double handling of ore by the machinery.

Monitoring of the dust jars in the sector of the industrial zone does not allow discrimination of the relative importance of the ore pile for dust emissions compared to the other mining infrastructure in the sector. In 2016, the jar closest to the ore pile (JP-ZOIN-14) had a mean annual deposition rate of 121 mg/d/m² and the mine site reference jar (JP-PAR-08) had a rate of 39 mg/d/m². However, this jar is also influenced by the activities of the transition pile in the ramp sector. In addition, the mean annual deposition rate of this jar (JP-ZOIN-14) decreased gradually (-54%) between 2015 and 2016, following the addition of ore silos at the concentrator, which shows that the ore pile's influence remains limited in this sector. The coarse gradation of the ore (raw ore extracted from the mine or run-of-mine) and its high moisture rate will contribute to minimize wind entrainment of particles.

The application of the mitigation measures already in place for the pile's operations will limit the impacts on air quality. No additional impact is expected on air quality following the expansion of the pile.

8.2 Water quality

As is currently the case for the existing pile, all the runoff water in the peripheral sector of the pile will continue to be diverted from the pile, collected in a pond and transferred to the IWTU. This will limit the volume of runoff water to be managed within the pile.

The runoff water within the pile will be collected via a culvert to the existing sump located northeast of the current pile (see Appendix 2). The runoff water drainage and collection system

is dimensioned to account for the new drained area, based on the design criteria already established during the development of this pile.

The application of the mitigation measures already in place for all mine operations will limit the impacts on water quality. No additional impact is expected on water quality following the expansion of the pile.

In conclusion, and considering the mitigation measures already in place, the proposed ore transfer pile expansion project will not result in any additional impact on the biophysical environment and the human environment.

9 Conditions of public information and consultation

The Environment Committee of the Collaboration Agreement was informed of the ore pile expansion project on June 6, 2017. The project will be discussed at the next meeting of the Environment Committee, in which the tallyman will participate from now on.

In addition, the Cree Nation Government was informed of the project via the request for an opinion transmitted on April 25, 2017 to the MDDELCC, in order to confirm if this project required an application for amendment of the Overall CA.

10 Project schedule

The pile expansion work is scheduled for the beginning of summer 2018, during the scheduled shutdown of production at the concentrator, the only window available to perform this work.

The work will be performed when all the authorizations will have been received, including the requested amendment to the Overall CA and the MDDELCC certificate of authorization under section 22 of the Environment Quality Act.

11 Subsequent phases and related projects

Not applicable.

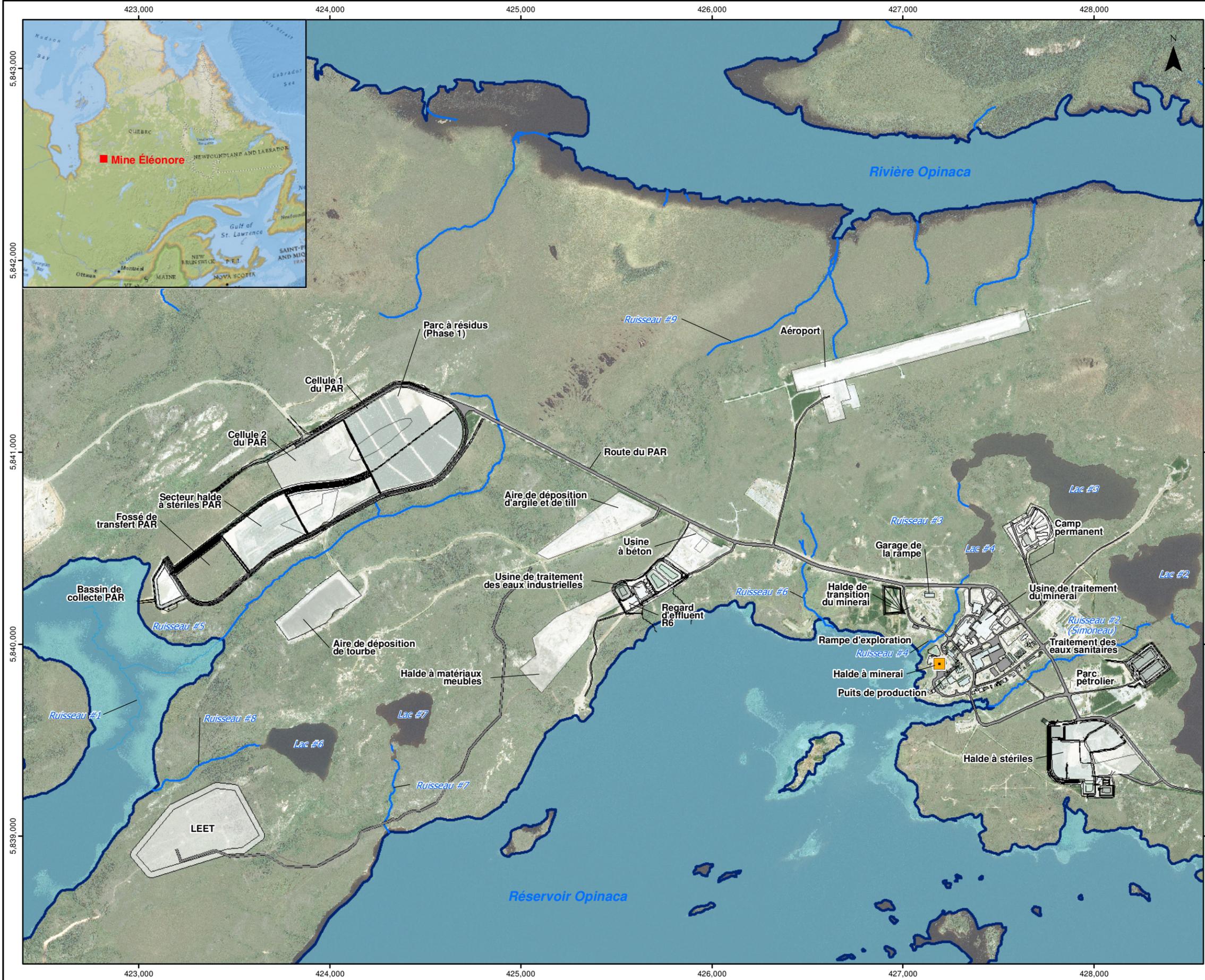
References

ENGLOBE, 2015. Mine Éléonore. Inventaires biophysiques. Rapport d'étude. [Éléonore Mine. Biophysical inventories. Study report] Ref. No. : 046-2344-1-EN-R-0002-0B.doc. Preliminary document. August 2015.

GOLDER, 2010. Projet Éléonore: Développement et exploitation d'un gisement aurifère - Étude d'impact environnementaux et sociaux, 07-1222-3010. [Éléonore project: Development and mining of a gold deposit - Environmental and social impact study] January 2010.

Appendix 1

Location of the ore pile on the Éléonore mine site



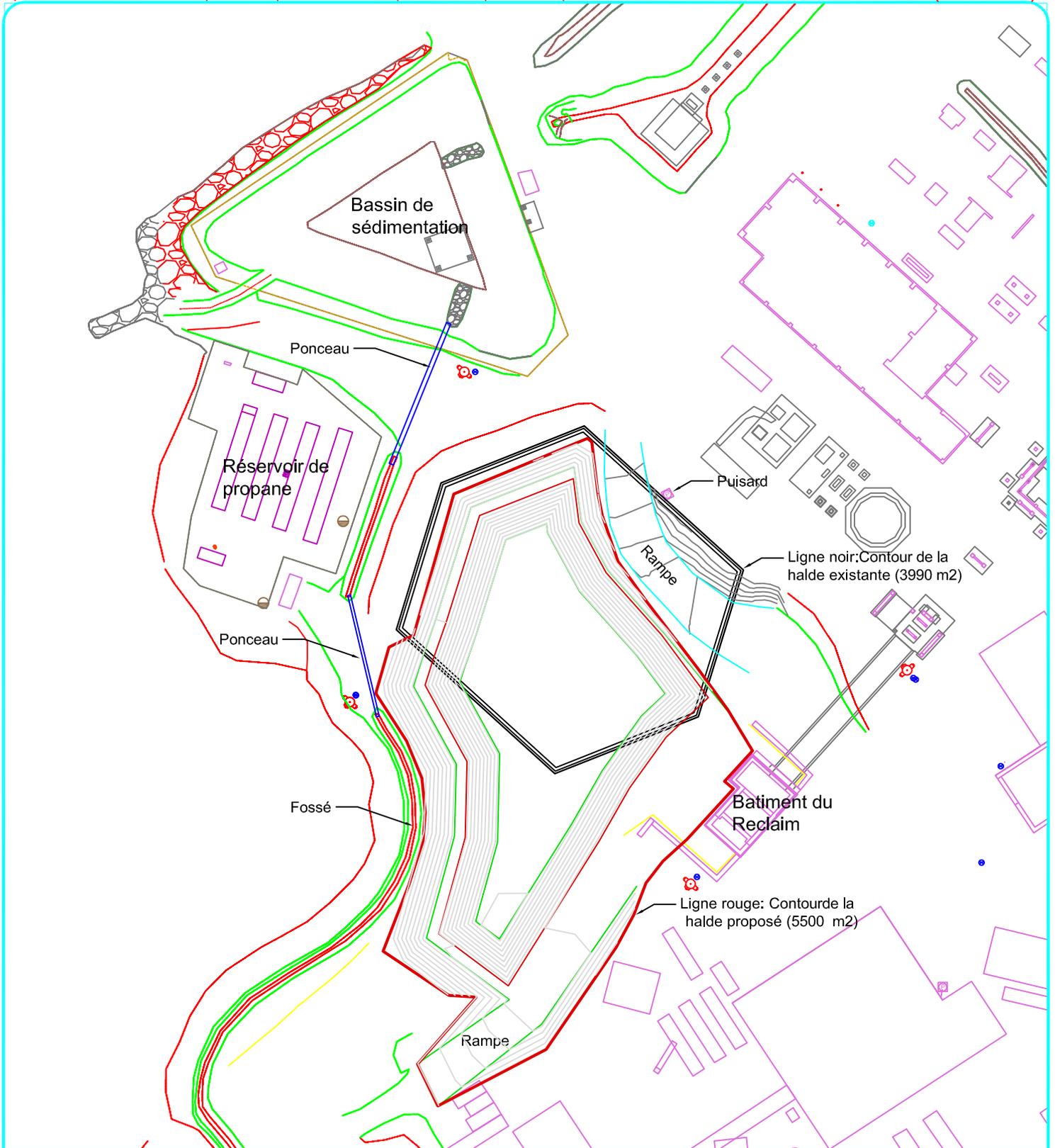
■ Halde à minerai
Milieu environnant
— Cours d'eau
— Cote maximale du réservoir Opinaca (215,8 m)

Projection cartographique: UTM Nad83, Zone 18

Titre														
Localisation de la halde à minerai														
Projet														
MINE ÉLÉONORE Demande de modification de CA Global														
Directeur de projet (client)		Directeur de projet (consultant)												
Martin Duclos		Lina Lachapelle												
Client		Consultant												
Les Mines Opinaca Ltée		 SNC-LAVALIN												
Échelle		No. projet	Fichier											
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Appendix 2

Proposed expansion of the ore transfer pile



A					
N°	DATE	ÉMISSIONS	PAR	VER.	APP.

GOLDCORP
ÉLÉONORE
 No. Projet:

DATE ORIG. 2017-04-12	CONCEPTION DESIGNED	DESSINÉ DRAWN	JFP	VÉRIFIÉ CHECKED
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Vue en Plan de l'agrandissement halde à minerai en face du bâtiment du Reclaim

Échelle/Scale	No.	No.	Rev.
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