



January 26, 2017

Your file - Votre référence
2AM-MEL1631

Our file - Notre référence
IQALUIT-# 1128045

Robin Ikkutisluk
Licence Administrator
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

Sent via email: licensing@nwb-oen.ca

Dear Robin,

Re: Indigenous and Northern Affairs Canada's Review of Agnico Eagle Mines Limited's Submission of Final Design and Construction Drawings for Sewage Treatment Plant, Water Licence 2AM-MEL1631 Part D, Item 1 & 2 - Meliadine Gold Project

Thank you for the Nunavut Water Board's January 19, 2017 notice regarding the above mentioned.

A memorandum is provided for the Nunavut Water Board's consideration. Comments and recommendations have been provided pursuant to Indigenous and Northern Affairs Canada's mandated responsibilities under the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Department of Indian Affairs and Northern Development Act*.

Please do not hesitate to contact me for further information at 867-222-1008 or by email at Amjad.Tariq@aandc-aadnc.gc.ca or Ian Parsons at 867-975-4282 or by email at Ian.Parsons@aandc-aadnc.gc.ca.

Sincerely,

Amjad Tariq
Regulatory and Science Advisor
Water Resources Division
Resource Management Directorate
Nunavut Regional Office
Indigenous and Northern Affairs Canada
IQALUIT, NU X0A 0H0

cc. Ian Parsons, Acting Manager, Water Resources Division, INAC
Erik Allain, Manager, Field Operations, INAC



Memorandum

To: Robin Ikkutisluk, Licence Administrator, Nunavut Water Board

From: Amjad Tariq, Regulatory and Science Advisor, Water Resources Division, INAC

Date: January 26, 2017

Re: **Indigenous and Northern Affairs Canada's Review of Agnico Eagle Mines Limited's Submission of Final Design and Construction Drawings for Sewage Treatment Plant, Water Licence 2AM-MEL1631 Part D, Item 1 & 2 - Meliadine Gold Project**

Licence: 2AM-MEL1631

Licensee: Agnico Eagle Mines Ltd

Project: Meliadine Gold Mine

Region: Kivalliq

BACKGROUND

On January 19, 2017, the Nunavut Water Board (Board or NWB) requested that interested parties review Agnico Eagle Mines Limited's (AEM) submission regarding final design and construction for sewage treatment plant as a requirement of Part D, Item 1 and 2 of the current Water Licence No. 2AM-MEL1631 for Meliadine Gold Mine project.

Interested parties were asked to provide comments by January 30, 2017.

RESULT OF REVIEW

Comment 1:

The provided document entitled 'Meliadine Sewage Treatment Plant' contains design of sewage treatment system for a maximum daily flow rate of 216 cubic meters. The



average Biological Oxygen Demand (BOD) in the influent has been reported to be 200-360 mg/L. The water quality parameters for raw sewage (chemical oxygen demand or COD, total suspended solids or TSS, nitrate, nitrite, pH, total phosphorus, ammonia, total kjeldahl nitrogen or NTK, fecal coliforms and total coliforms) and treated sewage (BOD, COD, TSS, nitrate, nitrite, pH, total phosphorus, ammonia, NTK, fecal coliforms and total coliforms) have not been mentioned in the design report.

Recommendation:

INAC recommends the licensee to mention the concentrations of water quality parameters for untreated sewage (influent) and treated sewage (effluent) in the provided report. The water quality parameters regarding sewage treatment plant are BOD, COD, TSS, nitrate, nitrite, pH, total phosphorus, ammonia, total kjeldahl nitrogen or NTK, fecal coliforms and total coliforms.