



Your file - Votre référence
2BE-MPP1719

May 14, 2019

Our file - Notre référence
IQALUIT-# 1250420

Licensing Department
Nunavut Water Board
P.O. Box 119
GJOA HAVEN, NU, X0B 1J0

Sent via email: licensing@nwb-oen.ca

**Re: Technical Review of Renewal Application for Water Licence No. 2BE-MPP1719 -
Mel Project (North Arrow Minerals)**

To Whom It May Concern,

Thank you for the Nunavut Water Board's April 14, 2019 notice of the above mentioned water licence renewal application.

A memorandum is provided for the Nunavut Water Board's consideration. Comments and recommendations have been provided pursuant to Crown-Indigenous Relations 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 by telephone at 867-222-9278 or email at ian.parsons@canada.ca for further information.

Sincerely,

Ian Parsons
Regional Coordinator
Water Resources Division
Crown-Indigenous Relations and Northern Development Canada
P.O. Box 100
Iqaluit, NU X0A 0H0



Memorandum

To: Licensing Department, Nunavut Water Board

From: Ian Parsons, Regional Coordinator, Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC)

Date: May 14, 2019

Re: Technical Review of Renewal Application for Water Licence No. 2BE-MPP1719 - Mel Project

Applicant: North Arrow Minerals Inc.
Project: Mel Project
Region: Qikiqtani

Comments:

A. Background

North Arrow Minerals Inc. (the Applicant) has applied for a renewal of their Type 'B' Water Licence to support an exploration program (diamond drilling) across six mineral claims of the Mel Project. The exploration program will consist of a drilling program as well as activities related to soil sampling, geophysical studies and geological mapping. Exploration activities will be supported by a field camp located approximately 200 km from Naujaat and 150 km from Hall Beach (67°32'6.70"N, 82°31'28.20"W).

The Applicant has applied for a renewal of their Type 'B' Water Licence allowing for water use and the deposit of waste. The Applicant has indicated that water use will be required for camp and drilling purposes, depending on the type of drill used. Depending on the number of people in camp, camp activities will require up to 0.5 m³ of water per day. Drilling activities may occur on land, water or on ice and will require 50 m³ of water per day if a conventional diamond drill is used. The Applicant reports that no water use for drilling will be required if a reverse circulation (RC) drill is chosen. As such, water use is expected to be between 0.5 and 50.5 m³ per day to support camp and drilling activities. Used water will not be returned to source water bodies, but will be disposed of in hand-dug sumps or natural depressions. In addition to the deposit of used water, the Applicant will also dispose of drill cuttings in sumps or natural depressions. Human waste (sewage) and greywater from camp activities will be disposed of in a latrine pit and kitchen sump (respectively). Grease from kitchen activities as well as hazardous waste materials will be backhauled to the community where operations are being staged.



B. Results of review

On behalf of CIRNAC's Water Resources Division, the following comments and recommendations are provided for the NWB consideration:

1. **Quantity of water use**

Source:

2BE-MPP1719 Renewal Water Licence Application, Section 13: Quantity and Quality of Water Involved

Comment: The Applicant has stated that 0-50 m³ will be required for the drilling activities depending on the type of diamond drill chosen (conventional or reverse circulation) as well as the 0.5 m³ for domestic purposes.

Recommendation 1: CIRNAC recommends that the Applicant clarify the type of drill that will be used in the exploration program in order to provide certainty regarding the amount of water that will be required under this Water Licence. If clarification on drill type cannot be provided at this time, CIRNAC recommends that a Water Licence include water use amounts that would accommodate either type of drilling program.

2. **Management plans**

Source:

2BE-MPP1719 Spill Contingency Plan

Comment: The Applicant has not supplied a Spill Contingency Plan with its renewal application.

Recommendation 2: CIRNAC recommends that a spill plan is required from the Applicant since there will be hazardous materials on site.

Comment: The Applicant has not supplied an abandonment and Reclamation Plan with their renewal application.

Recommendation 3: CIRNAC recommends that an abandonment and reclamation plan is required from the Applicant as part of the application package.