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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

File: 2AM-WTP1826/TR/F12

February 11, 2018

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**Subject: Operation & Maintenance Manual Arsenic Water Treatment Plant;
Type “A” Water Licence 2AM-WTP1826, Whale Tail Pit Project, Agnico Eagle
Mines Limited**

Dear Ms. Marcil and Mr. Quesnel:

The Nunavut Water Board (“NWB”) received from Agnico Eagle Mines Limited (Agnico Eagle or Licensee) on November 29, 2018, the Operation & Maintenance Manual Arsenic Water Treatment Plant dated November 2018 (O&M Manual or Manual) for Board approval as required under Part F, Item 12 of the Water Licence 2AM-WTP1826 (Licence) that was approved by the Minister of Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC or former INAC) on July 11, 2018.

The purpose of Arsenic Water Treatment Plant (As-WTP) is to treat water from the Whale Tail Project’s attenuation pond.

The Manual states that the global concept for water treatment at Amaruq is based on the reuse of the two Actiflo® from Meadowbank. Actiflo® is designed to treat mainly suspended solids (TSS). In Amaruq, it is expected to have arsenic (As) in the surface water due to the leachability of the rock. Therefore, the Actiflo® will be integrated into a treatment chain able to remove As to acceptable levels.

The objectives of this O&M Manual are summarized as follows:

- 1. To define the location, design and operating procedures to be used in the treatment of contact water generated at the Project; and*
- 2. To provide monitoring requirements for the AsWTP.*

The O&M Manual was distributed for a public review and comments on November 30, 2018 with a deadline set at January 7, 2019. On January 7, 2019, the Environment and Climate Change

Canada (ECCC) advised the Board that it has no comments at this time. On January 7, 2019, comments were received from Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC or former INAC), recommending that the O&M *Manual be revised to include a step-by-step instruction on the routine operational and maintenance procedures for the plant operators to follow.*

On February 1, 2019, Agnico Eagle provided a revised O&M Manual dated January 2019. On February 6, 2019, CIRNAC submitted further comments, acknowledging that *Sections 3.5 and 3.7 of the revised version of the O&M manual added the lists of parameters and operation and maintenance checkups for the operator to monitor and perform daily. However, it would be more practical if a detailed (or step-by-step) instruction on how the daily tasks need to be executed is included for the operator to follow. Such instruction will standardize the operational and maintenance procedures and be important in avoiding or reducing human errors.*

The NWB would like to thank Agnico Eagle for updating the Manual in a timely manner and acknowledges that the revised Manual lists the daily operations of the As-WTP that should be performed by the operator. The Board finds the revised O&M Manual functional and generally satisfying Licence requirements, and by copy of this letter has approved the Operation & Maintenance Manual Arsenic Water Treatment Plant dated January 2019 through the Board Motion No. 2018-A1-028, dated February 11, 2019, as required by Part F, Item 12 of Licence. The Board also recommends the Licensee to update the Manual, if required operationally, to include *detailed instruction on how the daily tasks need to be executed* as recommended by CIRNAC.

Should you have any questions, please feel free to contact the undersigned at (867) 360-6338 (ext. 35) or karen.kharatyan@nwb-oen.ca.

Regards,
NUNAVUT WATER BOARD

Karén Kharatyan
Director of Technical Services

cc: Distribution List – Meadowbank and Whale Tail Pit