



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

Canada

**Environment and Climate Change Canada's Presentation  
to the Nunavut Water Board Respecting TMAC Resources  
Inc. Application for a Type "A" Water Licence and Type "A"  
Water Licence Amendment**

2AM-BOS— / 2AM-DOH1323  
Final Hearing  
Cambridge Bay, NU  
October 24 and 25, 2018

## Overview

- Mandate
- Relevant Acts and Legislation
- Environment and Climate Change Canada's Recommendations  
Pertain to:
  - Aquatic Effects Monitoring Program
  - Effluent Quality Criteria
  - Mitigation and Monitoring of In-water Construction Activities

Page 2 – October-10-18



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

Canada

## Environment and Climate Change Canada's Mandate

- The preservation and enhancement of the quality of the natural environment, including water, air and soil quality, and the coordination of the relevant policies and programs of the Government of Canada
- Renewable resources, including migratory birds and other non-domestic flora and fauna
- Meteorology
- The enforcement of rules and regulations.

Page 3 – October-19-18



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

Canada

## Relevant Acts and Regulations

- *Department of the Environment Act*
- *Canadian Environmental Protection Act*
- *Fisheries Act – Pollution Prevention Provisions*
- *Migratory Birds Convention Act*
- *Species at Risk Act*



Page 4 – October-19-18



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

Canada

## **ECCC #1 Aquatic Effects Monitoring Program**

- ECCC noted some details missing in the AEMP such as finalizing details for the study design, data analysis, aquatic response framework and baseline sampling

### **Recommendation:**

- ECCC recommended that the AEMP be submitted for Board approval following the issuance of the water licence, prior to construction.

### **Proponent Response:**

- TMAC submitted a final draft of the AEMP and requested approval as part of the water licencing process

Page 5 – October 19-18



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

Canada

## **ECCC #2 Effluent Quality Criteria**

- TMAC primarily compares predicted effluent quality to the authorized limits for deleterious substances that are regulated under the MDMER; however, it is unclear whether TMAC is proposing any additional effluent quality criteria. The MDMER include national minimum standards for effluent quality monitoring. They would not reflect site specific considerations, such as the sensitive nature of Northern aquatic ecosystems.

Page 6 – October 19-18



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

Canada

## **ECCC #2 Effluent Quality Criteria**

### **Recommendation:**

- Given the sensitive nature of the local aquatic ecosystems, ECCC suggested that lower limits than those set by the MDMER be considered. This is consistent with what has been indicated to be achievable by TMAC's modelling. ECCC also suggested that TMAC consider including additional water quality parameters.

### **Proponent Response:**

- TMAC feels that the MDMER limits as proposed are acceptable

Page 7 – October-19-18



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

Canada

## **ECCC# 3 Mitigation and Monitoring of In-water Construction Activities**

- Based on discussions at the technical sessions, TMAC has provided a preliminary draft of an Environmental Protection Plan that outlines the components that will be included in this plan. However, specific monitoring/management requirements are not stated.

Page 8 – October-19-18



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

Canada

### **ECCC# 3 Mitigation and Monitoring of In-water Construction Activities**

#### **Recommendation:**

- ECCC recommended that a design-specific in-water construction plan be submitted to the Nunavut Water Board for approval prior to any in-water construction. The plan should include the components outlined in the TMAC's commitment to ECCC-WL-4.1.9.

#### **Proponent Response:**

- TMAC has stated that these details will be finalized in the Environmental Protection Plan submitted to the NIRB

Page 9 – October-19-18



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

**Canada**

## **Thank you**



Page 10 – October-19-18



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

**Canada**

