



Water Resources Division  
Nunavut Regional Office  
Iqaluit, NU X0A 0H0

NWB#: 3BC-MBP  
CIDMS#: 409679

June 10, 2010

Phyllis Beaulieu  
Manager of Licensing  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, NU, X0A 1J0

**Re: New Application, Mesoproterozoic Basins Project (NWB#: 3BC-MBP),  
Department of Earth Sciences, Laurentian University**

Please be advised that Indian and Northern Affairs Canada (INAC) has completed a review of the Laurentian University's application for a new Type "B" Water License #3BC-MBP, Mesoproterozoic Basins Project located in the Qikiqtani Region of Nunavut. All associated documents related to this license posted on the NWB ftp website under 3BC-MBP were included in my review (please see attached technical memo for recommendations).

Should you have any questions or comments, please do not hesitate to contact me at (867) 975-4738 or by email at [Andrea.Cull@ainc-ianc.gc.ca](mailto:Andrea.Cull@ainc-ianc.gc.ca)

Yours truly,

*Original Signed By*

Andrea Cull  
Water Management Specialist

Cc: Lou-Ann Cornacchio, Water Resources Manager, INAC



## Technical Review Memo

To: Phyllis Beaulieu, Manager of Licensing, NWB

From: Andrea Cull, Water Management Specialist, INAC

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**Re: New Application, Mesoproterozoic Basins Project (NWB#: 3BC-MBP),  
Department of Earth Sciences, Laurentian University**

### **BACKGROUND:**

Elizabeth C. Turner of the Department of Earth Sciences of Laurentian University submitted a New Type "B" Water License application to the Nunavut Water Board (NWB) on April 21, 2010. Laurentian University is applying for a water license for water use and waste disposal associated with activities located on Ellesmere Island and Devon Island in the Qikiqtani region of Nunavut.

Two people from Laurentian University will conduct geological research in five different locations on Southeastern Ellesmere Island and Southern Devon Island, between June 25, 2010 and August 31, 2010. The researchers will spend four to seven days in each area. The camps will consist of two small personal tents and one kitchen tent. Water usage will be minimal (water will be obtained from streams or ponds in the area).

### **INAC HAS REVIEWED THE FOLLOWING DOCUMENTS:**

- Water Licence Application received April 21, 2010
- Supplemental Questionnaire received April 21, 2010
- Inuktitut and English Summary received April 21, 2010
- Southern Devon Island Map received April 21, 2010
- Southeastern Ellesmere Island Map received April 21, 2010
- Application and Water Use Fee received May 4, 2010

All associated documents related to this license posted on the NWB ftp website under 3BC-MBP were included in my review.

As a result of the review INAC recommends that the Nunavut Water Board impose standard conditions suitable for camp/research projects of this size and magnitude. In addition, the following comments/recommendations are provided for your consideration in the license approval process.



## **COMMENTS/RECOMMENDATIONS:**

### **1. Water Use**

Neither the Water License Application nor the Supplementary Questionnaire clearly state or describe the locations of the water sources. (See question #6 of the Application and question #26 of the Supplementary Questionnaire)

### **2. Waste**

#### **a). Camps / Wastewater Disposal**

INAC recommends that all sumps for the disposal of grey water should be located a minimum distance of 31m from any water body and such that there are no adverse effects to water quality. Furthermore, all sumps should be treated, backfilled and contoured to match the surrounding landscape prior to the end of the field program.

#### **b). Hazardous Wastes**

INAC recommends that Hazardous waste/ waste oil materials stored on-site be clearly labelled so they will be visible under all conditions and in all seasons. This recommendation is intended to prevent possible damage to the containers.

#### **c). No Open Burning**

According to EC's Technical Document for Batch Waste Incineration Guidelines, there should be no open burning of plastics, wood treated with preservatives, electrical wire, Styrofoam, asbestos or painted wood. This is to prevent the deposition of waste materials from incomplete combustion and/or leachate from contaminated ash residues from affecting any surrounding waters.

### **2. Spill Contingency Plan**

The Spill Contingency Plan should make reference to the Nunavut Spill Report Line and include a copy of the Nunavut Spill Report Form. This form can be obtained from the Nunavut Water Board public registry at <http://www.nunavutwaterboard.org>. Please note that the 24-hour Spill Report Line telephone number is (867) 920-8130 and facsimile number is (867) 873-6924. Furthermore, INAC requests the proponent report all



spills to Peter Kusugak, INAC Manager of Field Operations, phone: 867-975-4295, fax 867 975-6445 as well as the Nunavut Spill Report Line.

The Camp Fuel Spill Contingency Plan does not clearly state how many spill kits will be on site and where they will be located. (See question #24 of the Supplementary Questionnaire)

Prepared by: Andrea Cull

Cc: Lou-Ann Cornacchio, Water Resources Manager, INAC