



Water Resources
Nunavut Regional Office
P.O. Box 100
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September 2, 2011

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

Your file - Votre référence
2BE-BAF0611
Our file - Notre référence
CIDM# 477866

**Re: 2BE-BAF0611 - North Central Baffin Project – Burnstone Ventures Inc.
– Qikiqtani Region – Renewal Application**

Dear Phyllis Beaulieu:

Aboriginal Affairs and Northern Development Canada (AANDC) has performed a review of the water licence renewal application, 2BE-BAF0611 (North Central Baffin Project) submitted by Burnstone Ventures Inc. to the Nunavut Water Board (NWB). The following advice has been provided pursuant to AANDC's mandated responsibilities for the enforcement of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* (NWNSRTA) and the *Department of Indian Affairs and Northern Development Act* (DIAND Act). In conducting our review, AANDC referred to the documents on the NWB's FTP-site under 2BE-BAF0611.

Should you have any questions or comments, please do not hesitate to contact me at (867) 975-4738 or by e-mail at Jean.Allen@aandc-aadnc.gc.ca

Sincerely,

Original Signed By

Jean Allen
Water Management Specialist

Cc. David Abernethy, A/Manager of Water Resources, Aboriginal Affairs and Northern Development Canada, Nunavut Regional Office
Andrew Keim, Water Resource Officer, Field Operations, Aboriginal Affairs and Northern Development Canada, Nunavut Regional Office



Technical Review Memorandum

To: Phyllis Beaulieu – Manager of Licensing, Nunavut Water Board

From: Jean Allen – Water Management Specialist, Aboriginal Affairs and
Northern Development Canada

**Re: 2BE-BAF0611 North Central Baffin Project – Burnstone Ventures Inc. –
Qikiqtani Region – Renewal Application**

A. Project Description

On June 22, 2011, the Nunavut Water Board (Board) distributed Burnstone Ventures Inc.'s (BVI) renewal application for a Type B water licence for water use and waste disposal in association with the North Central Baffin Project (Erichsen Lake Baffin Project) located on Crown and Inuit Owned lands. The existing licence expired on July 31, 2011. The applicant has requested a licence renewal term of 5 years (August 2011 to August 2016) for mineral exploration and diamond drilling programs.

BVI proposes to use Pingujuak Camp located 25 m east of Erichsen Lake (70°22'0" N, 80°11'3" W) to accommodate up to 25 people, however less than 10 people are expected in 2011. The camp is situated on Crown land, approximately 181 km northwest of Igloolik, NU and consists of 15 weather haven tents, 2 buildings, a helicopter landing area, and a natural gravel air strip.

Camp water will be drawn from Erichsen Lake and water will be taken from other nearby lakes for drilling activities. The estimated quantity of water required is 5 m³ per day (2.5 m³ for domestic use and 2.5 m³ for drilling operations). Sewage will be treated and disposed in two latrine pits located 60 m from any water source. Greywater and drill cuttings will be filtered and released into a gravel lined sump located at least 34 m from any water source. Solid waste will be backhauled to the Igloolik solid waste facility. Hazardous waste, waste oil, and empty barrels will be backhauled to an approved facility in Montreal, QC for disposal.

B. Results of Review

AANDC Water Resources Division offers the following comments/
recommendations for the Board's consideration.



1. General

- According to the Water Licence Application and the Supplementary Questionnaire, solid waste and bulky items/scrap metal will be backhauled to the Igloolik Solid Waste Facility. AANDC recommends that written authorization be obtained from the Hamlet of Igloolik confirming the use of their facilities to dispose of solid wastes and provide a copy to the Board.

2. Spill Prevention and Response Plan

- In-situ combustion was included in the plan as a disposal method for fuels and petroleum product spills on peatland (muskeg). AANDC recommends that in-situ combustion is only to be undertaken with the approval from appropriate authorities and in accordance with the terms and conditions of the water licence.
- The plan does not indicate whether contaminated materials will be stored within secondary containment. AANDC recommends that all hazardous material be stored within secondary containment.
- Material Safety Data Sheets (MSDS) for Jet A Fuel, Jet B Fuel, and Propane could not be located in the plan. AANDC recommends that the plan includes MSDS for all hazardous wastes on site.
- AANDC recommends that contractors and personnel are trained in Workplace Hazardous Materials Information System (WHMIS). Training in Transportation of Dangerous Goods (TDG) and Occupational Safety and Health Administration (OSHA) shall be done according to the TDG Act and Regulations and the OSH Act and OSHA standards respectively.

3. Abandonment and Restoration Plan

- BVI proposes to burn untreated wood and cardboard at seasonal and final closures. AANDC does not encourage the open burning of waste and recommends that combustible waste be incinerated in an approved incinerator or backhauled to an approved solid waste facility.
- Incineration is referenced in the plan. AANDC recommends that any burning of waste is conducted in accordance with Environment Canada's Technical Document for Batch Waste Incineration.
- The plan indicates that all chemicals will be stored in a sealed tent but whether or not they will be contained is unknown. AANDC recommends that chemicals be stored within secondary containment.
- Remediation of drill holes could not be located in the plan. AANDC recommends that a plan for drill hole restoration (that complies with Part H, Item 7 of the current water licence) be included in the plan.
- Contact information for AANDC Land Use Inspector (Resource Management Officer) for the Kitikmeot Region was included in the plan. The AANDC Resource Management Officer for the Qikiqtani Region can be contacted at (867) 975-4296.



4. Compliance Issues

- The previous water licence expired on July 31, 2011 and BVI submitted an application for renewal only 2 days prior. AANDC recommends that the licensee submit an application at least 3 months before the licence expiry date as required in Part B, Item 5 of the current water licence.
- Monitoring results, as required under Part I of the current water licence, could not be located on the NWB FTP site. AANDC recommends that the licensee comply with the monitoring requirements and include all data listed in Part I, Item 4 in annual reports as required under Part I, Item 7.
- Water quantity data for drilling purposes was not located in the annual reports on the NWB FTP site. AANDC recommends that daily quantities of water be measured and recorded according to Part B, Item 4 and Part I, Item 1 of the current water licence.
- In the 2009 Inspection Report, the camp was noted as being inactive but the sump was left uncovered, human waste was found in the storage building, garbage bags and other wastes were noted at the airstrip, a fuel leak was noted, and none of the drums on site had any secondary containment.
- In the 2011 Inspection Report, the camp was noted as being inactive but the tents were missing, a considerable amount of debris was seen on site, and numerous fuel drums were improperly stored. AANDC recommends that the site be cleaned up, the fuel and chemicals stored in secondary containment, solid waste and empty drums backhauled to an approved facility, and any contaminated soils cleaned up and shipped out for proper disposal. A summary report of the clean-up and progressive reclamation activities should be included in upcoming Annual Report submissions.

cc. David Abernethy, A/Manager of Water Resources, AANDC
Andrew Keim, Water Resource Officer, AANDC