

Water Resources Division  
Qimugjuk Building  
P.O. Box 2200  
Iqaluit, Nunavut  
X0A 0H0  
référence

Your file - Votre

NWB3CAM

Our file - Notre référence

July 8, 2002

Ms. Phyllis Beaulieu  
Acting Licensing Administrator  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, Nunavut  
X0E 1J0

Dear Ms. Beaulieu:

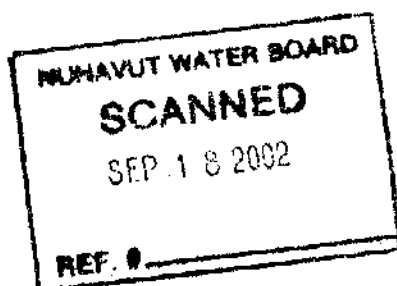
Re: Cambridge Bay - Environmental Assessment

Pursuant to Section 5 of the Canadian Environmental Assessment Act (CEAA), the Department of Indian and Northern Affairs Canada (INAC) has completed an environmental assessment of the Hamlet of Cambridge Bay's water licence application.

The Project proposal was reviewed by INAC's Water Resources Management Division in collaboration with the Department of Fisheries and Oceans, Environment Canada, and Health Canada. In addition, comments were received from the Government of Nunavut Department of Health, and Culture, Language, Elders and Youth. Based on the results of the screening, INAC has concluded that the project is not likely to cause significant adverse environmental effects. The incorporation of appropriate conditions in the new water licence will help mitigate the current environmental effects of Cambridge Bay's waste disposal facilities. Suggested conditions are as follows:

Conditions Applying to Water Use:

- the past licence conditions are adequate and, given the records submitted by the Hamlet, the previous limit of 70,000 m<sup>3</sup>/day will be sufficient
- ensure compliance with the *Freshwater Intake End-of-Pipe Fish Screen Guideline* (DFO, 1995), available upon request from DFO



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#### Conditions Applying to Waste Disposal: Solid Waste Disposal Site

- install and maintain fencing to prevent the deposit of solid waste in the sewage lagoon
- assess contaminants in solid waste site (the Hamlet has been working with CG&T to secure funding for the installation and sampling of monitoring wells on the south side of the site), submit a report which summarizes the results and suggests remedial measures that incorporate progressive reclamation
- develop and implement an engineered site improvement plan to effectively separate the two waste streams, prevent mixing of sewage and solid waste site effluents, and ensure the safe handling and disposal of waste oil and other hazardous wastes
- submit plans to relocate the solid waste disposal site to the Nunavut Water Board (NWB) upon completion, it is expected that these plans will be reviewed when required as an amendment to this licence

#### Conditions Applying to Waste Disposal: Sewage Lagoon

- prepare and submit an Operation and Maintenance Plan that includes a procedure for the removal of solids from the sewage lagoon, maintenance of a one metre freeboard, and maintenance of the truck discharge chute such that erosion is prevented
- develop and implement an engineered site improvement plan which includes plans for the construction of a bagged toilet waste facility to receive the waste from outpost camps
- sample lagoon effluent annually (as a minimum), during periods of flow, as per the *Guidelines for the Discharge of Treated Municipal Wastewater in the Northwest Territories* (1992), the effluent must meet the following criteria:

Total Suspended Solids	120 mg/L
BOD	100 mg/L
Oil and Grease	no visible sheen
pH	6-9
Fecal Coliforms	10,000 CFU/100 mL
Ammonia	monitor only

#### General Comments

- the license should include requirements for the submission of an Operation and Maintenance Plan, Spill Contingency Plan, and Abandonment and Restoration Plan, the plans must include provisions for the water treatment and waste disposal facilities
- locate all waste, sewage contaminants, and fuel caches a minimum of 30 metres

from the normal high water mark of any water body, and be sufficiently bermed or otherwise contained to ensure that deleterious substances do not enter any water body

- implement and maintain sediment and erosion control measures prior to, and during work to prevent sediment entry into the water during a spring thaw
- control all activities, including maintenance procedures and refueling, to prevent the entry of petroleum products or other deleterious substances into the water
- upon completion of work, all disturbed areas should be stabilized and re-vegetated as required, and restored to a pre-disturbed state
- no material should be left on the ice when there is potential for that material to enter the water (i.e. Spring break-up)
- ensure completion of appropriate training of municipal staff to ensure quality control in sampling collection and preparation
- report all spills of oil fuel, or other deleterious material immediately to the 24-Hour Spill Line at (867) 920-8130
- ensure that future activities avoid the known archaeological sites listed in the attachment from the Department of Culture, Language, Elders and Youth

The application states that the Hamlet plans to relocate the waste disposal site. It is expected that plans for the new facilities will be submitted to the Nunavut Water Board upon completion and these will be reviewed through a licence amendment. As a relocation of the waste disposal facilities will constitute a major change in this project, INAC will be required to complete an environmental screening to meet the requirements of CEAA.

The full CEAA screening report and relevant correspondence are attached, should you have any questions or comments, please do not hesitate to contact me at (867) 975-4548 or by e-mail at [johnsonmi@inac.gc.ca](mailto:johnsonmi@inac.gc.ca).

Sincerely,

Michelle Johnson  
Kitikmeot/Kivalliq Regional Coordinator

c.c.: Jordan DeGroot, Department of Fisheries and Oceans  
Paula Pacholek, Environment Canada  
Maria Ooi, Health Canada