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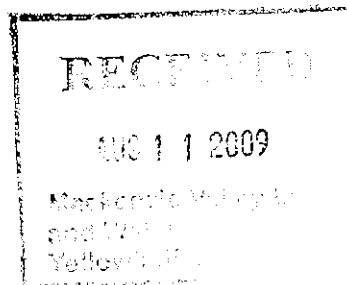
3<sup>rd</sup> Floor Bellanca Building  
PO Box 1500  
Yellowknife, NT  
X1A 2R3

File: MV2008L3 - 0004

Hamlet of Enterprise

August 11<sup>th</sup> 2009

To: Tyree Mullaney  
Regulatory Officer  
Mackenzie Valley Land and Water Board  
P.O. Box 2130  
Yellowknife, NT X1A 2P6



**SEND BY FAX: (867) 873-6610**

**Re: Hamlet of Enterprise - Water Licence Application**

Indian and Northern Affairs Canada (INAC) has reviewed the Hamlet of Enterprise Water Licence application and supporting documents and offer the following comments for the consideration of the Board.

### APPLICATION

#### **1 - General**

INAC would like to thank the Hamlet of Enterprise for its application for a Water Licence. Although the application is lacking in detail information, INAC is pleased that the Hamlet has applied for a water licence. INAC believes that the information that will be collected and provided by the Hamlet through the terms and conditions of its water licence will provide a better understanding of the Hamlet's municipal waste discharges and any associated environmental issues.

#### **2 - Water Supply**

The water is taken from the Hay River Treatment Plant. It is suggested that the quantity of water taken is recorded and reported. Water quality information from Hay River should be shared with the Community of Enterprise and this data should be reported in the annual report.

### **3 – Water Treatment**

It is assumed that the water is treated in Hay River before being discharged in the truck. For clarification, it is suggested that the application refers to Hay River's treatment system.

### **4 – Sewage Disposal**

It is recommended that proper signage should be installed at the Sewage Disposal Facility. Signage indicating the truck discharge location, the sewage lagoon and the SNP sites should be installed and maintained.

Presently, no sampling has been performed to monitor the effluent of the sewage disposal facility. An SNP Station is recommended at the outer edge of the sewage lagoon, where it exfiltrates through the wetland. The location of the SNP station should be chosen in consultation with the INAC Inspector. Sampling is recommended twice annually and sampled for the following parameters: TSS, faecal coliforms, pH, BOD, CBOD and oil and grease.

For the information of the Board, the Canadian Council for the Ministers of the Environment (CCME) recently finalized a Canada-Wide Strategy (the Strategy) to regulate Municipal Wastewater Effluent (MWWF) across Canada. Within this strategy, a period of 5 years is allocated to identify National Performance Standards appropriate to remote or Northern conditions. A Northern Research Working Group (NRWG) co-chaired by INAC and Environment Canada have been formed to facilitate understanding of municipal wastewater effluent and site conditions in the North. The NRWG assists jurisdictions by providing a communications forum and a technical base of expertise on Northern MWWF issues. For more information, please contact Catherine Mallet at [Catherine.Mallet@inac-ainc.gc.ca](mailto:Catherine.Mallet@inac-ainc.gc.ca) or Anne Wilson at [Anne.Wilson@ec.gc.ca](mailto:Anne.Wilson@ec.gc.ca).

For the purposes of this current application, INAC recommends that the derivation of the Effluent Quality Criteria follow the Guidelines for the discharge of Treated Municipal Wastewater in the Northwest Territories, 1992 until further guidance is in place regarding Municipal Wastewater Effluent.

### **5 - Solid Waste Disposal**

It is recommended that the solid waste facility be fully fenced to prevent wildlife to scavenge the site and prevent any windblown garbage from being blown into the surrounding area.

A separate area for the temporary disposal of Hazardous waste should be added to the landfill. The area should be properly signed and maintained to the satisfaction of the Inspector.

Runoff from the solid waste disposal facility should be monitored. It is recommended that an SNP station should be added downstream of the solid waste facility to monitor any run-off from the facility. The location of the SNP station should be chosen in

consultation with the INAC Inspector. It is recommended that this station be sampled during period of flow and tested for Metal Scan (Total), Oil and Grease (visible), Major Ions and Field Parameters.

## **PLANS**

### **Sewage Solid Waste Study**

It is recommended that the Sewage and Solid Waste Study be updated as an Operation and Maintenance Plan and be updated annually to reflect any operational changes to the Sewage Disposal Facility and the Solid Waste Disposal Facility.

### **Spill Contingency Plan**

It is recommended that the Spill Contingency plan include a map of the facility and a sketch including buildings, roads, water bodies, hazardous material locations, and spill kit locations. INAC's Guidelines for Spill Contingency Planning can be used as a reference guide for the Spill Contingency Plan. Copies can be obtained by contacting Chelsea Janz at the Water Resources Division, [Chelsea.Janz@inac-ainc.gc.ca](mailto:Chelsea.Janz@inac-ainc.gc.ca). The Spill Contingency Plan should be updated annually.

### **Abandonment and Restoration Plan**

It is recommended that an Abandonment and Restoration Plan be submitted for review prior to abandoning any water supply, sewage or solid waste disposal facilities.

If possible, INAC would like the opportunity to review the Draft Water Licence. If you have any further questions or concerns please contact Catherine Mallet, Regulatory and Science Advisor, at (867) 669-2696 or [Catherine.Mallet@inac-ainc.gc.ca](mailto:Catherine.Mallet@inac-ainc.gc.ca), or Wayne Starling, Water Resource Officer, at (867) 872-2558 or [Wayne.Starling@inac-ainc.gc.ca](mailto:Wayne.Starling@inac-ainc.gc.ca).

Sincerely,



Robert Jenkins  
A/Manager  
Water Resources Division  
Indian and Northern Affairs Canada