



Water Resources Division  
Nunavut Regional Office  
Iqaluit, NU  
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NWB File: 3AM-GRA----  
CIDMS #: 391365

Feb 24, 2010

Richard Dwyer  
License Administrator  
P.O. Box 119  
Gjoa Haven, NU  
X0A 0H0

**Re: Type "A" Water License Application – Renewal of Type "B" 3BM –  
GRA0207 - Hamlet of Rankin Inlet**

Please be advised that Indian and Northern Affairs Canada (INAC) have completed a review of the water license application for 3AM-GRA – Hamlet of Rankin Inlet. The NWB circulated the Application for comments on January 25, 2010. All associated documents related to this application posted on the NWB ftp site under 3AM-GRA were included in my review (See attached Technical Review Memo).

Should you have any questions or comments, please do not hesitate to contact me at (867) 979-4282 or by email at [Ian.Parsons@inac.gc.ca](mailto:Ian.Parsons@inac.gc.ca).

Sincerely,

*Original signed by*

Ian Parsons  
Water Resources Technician

Cc. Lou-Ann Cornacchio, Manager of Water Resources – Indian and Northern  
Affairs Canada, Nunavut Regional Office



## **Technical Review Memorandum**

To: Richard Dwyer – License Administrator, NWB  
Peter Kusugak – Field Operations Manager, INAC

From: Ian Parsons – Water Resources Technician, Indian & Northern Affairs Canada.

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**Re: Type “A” Water License Application – Renewal of Type “B” 3BM –  
GRA0207 - Hamlet of Rankin Inlet**

### **Background**

The Hamlet of Rankin Inlet's water license expired on November 30, 2007. The Hamlet of Rankin Inlet has been operating without a water license since this date. The Hamlet of Rankin Inlet is now in the process of renewing their water license as all the appropriate paperwork has been submitted for review.

### **Comments/Recommendations**

The 2009 water license renewal application (previous license 3BM-GRA0207) for the water use and wastewater disposal for the Hamlet of Rankin Inlet submitted by Community and Government Services (Wayne Thistle – Acting Regional Project Manager) water license 3AM-GRA addressed most parts of the water license application. However, it has been noted that the following entities were omitted or need further explanation

1. The following items remain outstanding and were required as part of a complete application:

1a) Intake screen size used is required.

1b) Conditions applying to the Monitoring Program of the water licence; water sampling is required (see Part H of the licence). Water sampling is said to have taken place, however, no data has been submitted with application

1c) Items under **Part B Item #1** of the water license remain outstanding. These include i) tabular summaries of all data generated under the



Monitoring Program (Some data has been generated however not all data). ii) list of unauthorized discharges. iii) a summary of abandonment and restoration work completed and any work anticipated for the next year.

Also the annual report states that tabular summaries for 2007 sampling station GRA – 3 are attached in appendix D, however in appendix the table states that it is for 2008.

1d) Items under solid waste disposal would be contained in water license **3BM-RAN0207** as the solid waste facility is operated by the hamlet of Rankin Inlet and not Community and Government Services (licensee for water and wastewater).

1e) With the use of Chlorine and Fluoride at the water treatment facility hazardous waste management plans, procedures and protocols should be adopted.

## 2. Items requiring further clarification or discussion:

2a) Water use in the application is said to be 876,000m<sup>3</sup>/year based on water treatment facility operator records. This is **more** than double the license allowable use of 400,000m<sup>3</sup>/year. Also, with the recharge rates being calculated to be 314,000m<sup>3</sup>/year (as per operation and maintenance plan for the water supply treatment facility) further studies are required to determine the long term sustainability of the water source.

2b) The 2008 Annual Report for water license 3BM-GRA0207 outlines several operational problems with the sewage waste disposal facility. Sections 3.4-3.7 outline the problems and plans in place to mitigate those problems as well as timelines involved. The Operation and Maintenance (O and M) plan for the sewage Treatment Facility fails to outline any of these concerns. Further clarification into this issue is required (i.e. were any of the problems with the sewage waste disposal facility fixed).

2c) Under the Environmental Emergency Contingency Plan, spill kits are mentioned as well as their contents however their exact locations are not given. These locations should be given as they should be located at strategic locations – positions of greatest spill occurrences or environmentally damaging (i.e water treatment facility).

2d) The Environmental Emergency Contingency Plan does not contain all of INAC's contact numbers. 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.



2e) The Environmental Monitoring Program and Quality Assurance/Quality Control Plan references monitoring stations GRA-1, GRA-2 and GRA-3 and indicates that their specific locations are addressed on Figure 2, however their locations are not given or shown on the map associated with plan.

2f) Also Figure 3 shows sampling locations RAN-1, RAN-2, RAN-3 and RAN-4, this concerns the landfill and as such should be contained in water license **3BM-RAN0207** license renewal and not 3AM-GRA license Renewal.

This information has been forwarded to our Field Operations Unit.

Cc. Lou-Ann Cornacchio, Manager of Water Resources – Indian and Northern Affairs Canada, Nunavut Regional Office  
Peter Kusugak, District Manager – Indian and Northern Affairs Canada, Nunavut Regional Office



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