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Building Nunavut Together  
Nunavut liuqatigiingniq  
Bâtir le Nunavut ensemble

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Department of Community and Government Services  
Nunalingni Kavamatkunnilu Pivikhaqautikkut  
Ministère des Services Communautaires et gouvernementaux

June 1, 2015

Phyllis Beaulieu  
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Nunavut Water Board  
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**Re: Hamlet of Baker Lake Water Licence No. 3BM-BAK1015 Response to AANDC's Comments**

Dear Ms. Beaulieu,

Please see below for a response to the comments provided by Aboriginal Affairs and Northern Development Canada (AANDC) to the Nunavut Water Board (NWB) for the licence renewal application of Water Licence No. 3BM-BAK1015 (the Licence) on behalf of the Hamlet of Baker Lake (the Licensee).

**1. Licence Term:**

The Licensee is in agreement with AANDC's suggestion that at 15 year licence term to 2030 be issued. As outlined in the *Community Information: Water System* section of the Amendment/Renewal Application, this is the year that the Hamlet of Baker Lake's water usage is projected to be over the current water authorization of 100,000 cubic meters annually.

**2. Missing/Incomplete Administrative Reports:**

As per Part B, Item 1 of the Licence, the Licensee shall submit an Annual Report to the NWB no later than March 31st of the year following the calendar year reported. There is no requirement to submit Quarterly Reports.



Annual Reports have been produced for each year since the renewal in 2010. The Licensee acknowledges that monitoring data is missing from some Annual Reports filed between 2010 and 2015. This monitoring data was not collected and cannot be retroactively produced. The Licensee is committed to fulfilling the monitoring requirements of the Licence in the future and providing complete Annual Reports to the NWB.

### 3. Non-Compliance Issues:

The Licensee is working towards full compliance of the Licence using the Plan for Compliance submitted to the NWB with the Amendment/Renewal Application. The Plan for Compliance will be updated with the status of outstanding conditions and submitted with the Annual Report or as requested by the NWB.

### 4. Discharge Quality of Effluent:

The discharge quality effluent is described in Part D, Item 2 of the Licence:

*All Effluent discharged from the Sewage Disposal Facility at Monitoring Program Station BAK-5 shall not exceed the following Effluent quality limits:*

<b>Parameter</b>	<b>Maximum Concentration of any Grab Sample</b>
<i>BOD<sub>5</sub></i>	<i>80 mg/L</i>
<i>Total Suspended Solids</i>	<i>100 mg/L</i>
<i>Faecal Coliforms</i>	<i>1 x 10<sup>4</sup> CFU/100 mL</i>
<i>Oil and Grease</i>	<i>No visible sheen</i>
<i>pH</i>	<i>Between 6 and 9</i>

As per Part H, Item 1 of the Licence, Monitoring Program Station Number BAK-5 is sampled for water quality annually during periods of flow. BAK-5 is described as Finger Lake at the outlet of the Wetland.



Monitoring Program Station Number BAK-5 was sampled on July 30, 2014 and the complete results of the lab analysis were included in the 2014 Annual Report. BAK-5 was below all effluent quality limits outlined in the Licence. A summary of these parameters is in the following table.

Parameter	BAK-5 July 30, 2015
BOD <sub>5</sub>	15.2 mg/L
Total Suspended Solids	28 mg/L
Faecal Coliforms	2300 CFU/100 mL
Oil and Grease	<2.0 mg/L
pH	7.67

The Licensee will continue to monitor and sample BAK-5 to ensure it is meeting Licence conditions.

## 5. Sewage Disposal Facility Upgrades:

As described above, the sewage effluent quality limits are being met at the Licence compliance point. The Licensee will continue to monitor and sample BAK-5 to ensure it is meeting Licence conditions and that the past improvements to the Sewage Treatment Facility and Wetlands are working as intended.

## 6. Solid Waste Facility Segregation:

The Government of Nunavut, Community and Government Services (GN-CGS) is in the process of developing a territory wide Solid Waste Management Plan to address issues with Solid Waste Sites and Solid Waste Management across Nunavut. GN-CGS will be working with the Hamlet of Baker Lake to improve segregations at the Solid Waste Site and hazardous materials handling, storage and removal during the summer 2015. A description of the progress made at the Solid Waste Site will be included in the 2015 Annual Report.



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**7. Solid Waste Facility Runoff Control:**

The Licensee will submit a plan to the NWB indicating how they intend to stop runoff from the Solid Waste Facility from entering the environment within one year of new Licence issuance. The Licensee requests this timeframe to allow for complete sampling under the Monitoring Program to be collected in 2015 and to have a Consultant create an acceptable plan.

**8. Spill Reporting Contact Change:**

The Licensee will include the contact information provided by AANDC in the updated versions of the *Operation and Maintenance Manual for the Water, Sewage, and Solid Waste Facilities, Spill Contingency Plan, and Quality Assurance/Quality Control Plan* to be submitted to the NWB.

For further clarification or additional information on the Water Licence No. 3BM-BAK1015 Renewal Application, please contact Megan Lusty at (867) 645-8176 or [mlusty@gov.nu.ca](mailto:mlusty@gov.nu.ca).

Sincerely,

Megan Lusty, EIT  
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Community and Government Services  
Kivalliq Region, Government of Nunavut  
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cc: Dennis Zettler, SAO, Hamlet of Baker Lake  
Ralph Ruediger, Director of Community Development, GN-CGS  
Sean Joseph, Technical Advisor, NWB

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