

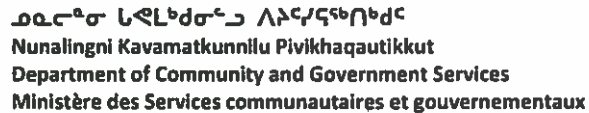


Phyllis Beaulieu  
Manager of Licensing  
Nunavut Water Board  
P.O. Box 119, Gjoa Haven, NU, X0B 1J0  
Phone: (867) 360-6338 ext. 27  
Fax: (867) 360-6369  
Email: [phyllis.beaulieu@nwb-oen.ca](mailto:phyllis.beaulieu@nwb-oen.ca)

Water Licence No. 3BM-BAK1015  
Hamlet of Baker Lake, Nunavut



- Cover Letter to the NWB;
- Executive Summary;
- Executive Summary Inuktitut Translation;
- Community Background;
- Water Licence Amendment Application Form;
- NPC Conformity Determination:
  - Letter from Bobby Suluk, NPC, to Phyllis Beaulieu, NWB, and Leslie Payette, NIRB, dated August 17, 2009;
  - Email from Brian Aglukark, NPC, to Arlen Foster, FSC, dated May 19, 2011;
- NIRB Screening Exemption:
  - Letter from Tannis Bolt, NIRB, to Phyllis Beaulieu, NWB, dated May 19, 2011;
- Hamlet of Baker Lake - Plan for Compliance, March 6, 2015;
- 2014 Annual Report;
- *Operations and Maintenance Manual for the Water, Sewage and Solid Waste Facilities, Baker Lake, NU* prepared by Nunami Stantec, June, 2011;
  - *Water Distribution System Operations and Maintenance* (Section 3);
  - *Sewage Disposal Facilities Operations and Maintenance* (Section 4);
  - *Solid Waste Disposal Facilities Operations and Maintenance* (Section 5);
  - *Emergency Response and Spill Contingency Plan* (Section 6);
- *Abandonment and Restoration Plan for the Water, Sewage and Solid Waste Facilities, Baker Lake, NU* prepared by Nunami Stantec, July 2011;
- *Quality Assurance/Quality Control Plan for the Hamlet of Baker Lake's Licensed Monitoring Program* prepared by Nunami Stantec, April 2011;
- As-built drawings for the Water Treatment Plant, contained in the following documents:
  - 2225DC~1.pdf;
  - 2251 Baker Lake as-build P&ID drawings.pdf;
  - 2251BA~4.pdf;
  - E2 to E4 Record drawings.pdf;
  - M1 to M7 Record drawings.pdf;
  - P1 to P4 Record drawings.pdf;
  - Pile as-build drawings.pdf;
  - S7 & T4 Record drawings.pdf;



- The *Quality Assurance/Quality Control Plan for the Hamlet of Baker Lake's Licensed Monitoring Program* is currently being updated and will be sent to an accredited laboratory to confirm acceptance. This updated plan, including cover letter from accredited laboratory, will be submitted to the NWB by **April 30, 2015**.

**A cheque for the amount of \$30.00 will be issued by the Hamlet of Baker Lake to the Receiver General for Canada for the Application fee and mailed to the NWB.**

Sincerely,

**Megan Lusty, EIT**  
**Municipal Planning Engineer-In-Training**  
**Community and Government Services**  
**Kivalliq Region, Government of Nunavut**  
**P.O. Box 490, Rankin Inlet, NU, X0C 0G0**



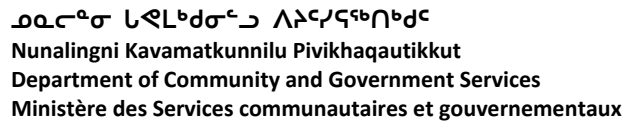
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Nunalingni Kavamatkunnilu Pivikhaqautikkut  
Department of Community and Government Services  
Ministère des Services communautaires et gouvernementaux

Phone: (867) 645-8176

Fax: (867) 645-8196

Email: [mlusty@gov.nu.ca](mailto:mlusty@gov.nu.ca)

Cc: Dennis Zettler, SAO Hamlet of Baker Lake  
David Hohnstein, NWB  
Ralph Ruediger, GN-CGS  
Robert Savard, AANDC



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P.O. BOX 149  
3022 4<sup>th</sup> Avenue  
BAKER LAKE, NU  
X0C 0A0

March 6, 2015

Phyllis Beaulieu  
Manager of Licensing  
Nunavut Water Board  
P.O. Box 119, Gjoa Haven, NU, X0B 1J0  
Phone: (867) 360-6338 ext. 27  
Fax: (867) 360-6369  
Email: [phyllis.beaulieu@nwb-oen.ca](mailto:phyllis.beaulieu@nwb-oen.ca)

Re: Hamlet of Baker Lake Water Licence No. 3BM-BAK1015 Authorization Letter

Dear Ms. Beaulieu,

This letter is to inform you that Megan Lusty from Community and Government Services is authorized to act as our Licensee Representative for the Water Licence Amendment/Renewal Application on behalf of the Hamlet of Baker Lake.

The contact information for Ms. Lusty is as follows:

Megan Lusty, EIT

Municipal Planning Engineer-In-Training

Community and Government Services, Kivalliq Region, Government of Nunavut

P.O. Box 490, Rankin Inlet, NU, X0C 0G0

Phone: (867) 645-8176

Fax: (867) 645-8196

Email: [mlusty@gov.nu.ca](mailto:mlusty@gov.nu.ca)

Sincerely,

Denis Zettler, *SAO*

A handwritten signature in dark ink, appearing to read "D. Zettler", is written over a horizontal line.



## Hamlet of Baker Lake Water Licence No. 3BM-BAK1015 Amendment/Renewal Application

### **EXECUTIVE SUMMARY**

The Hamlet of Baker Lake is submitting to the Nunavut Water Board (NWB) a Water Licence Amendment/Renewal Application for Water Licence No. 3BM-BAK1015. The Hamlet is requesting an amendment to Water Licence No. 3BM-BAK1015 for changes to several conditions of the original Licence. The Hamlet is also seeking a twenty-two (22) year renewal of the Licence which would be valid until 2037. The projected population of the Hamlet in the year 2037 is 2836 people.

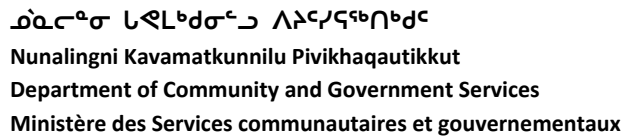
The Hamlet of Baker Lake utilizes Baker Lake as a potable water source with the authorized quantity of water not to exceed 100,000 cubic metres annually. The Amendment/Renewal Application is not requesting changes to the amount or source of water licensed.

A new Water Treatment Facility was constructed in 2011 to replace the old pumphouse/truckfill station. Licence Amendment No. 1 was issued on October 12, 2011 for the new Water Treatment Facility and intake structure, along with the disposal of backwash water to the sewage lagoon. The water treatment process consists of four pressure media filters, UV disinfection, and chlorine injection prior to storage in a 360,000 L tank. Two truck fill arms allow simultaneous fill from the storage tank. A small pipe distribution system delivers water to the Health Centre, Nurse's Residence, and Elders Group Home. Backwashing is done approximately once per week to clean the filters. Backwash water is not treated by UV or chlorine and is stored in a tank onsite until hauled by truck for disposal at the Sewage Disposal Facility.

The Hamlet of Baker Lake provides trucked sewage collection services. The Sewage Disposal Facility is situated approximately 1.2 km north of the community and consists of two sewage discharge points, a large holding cell, several flow attenuation structures, and a wetlands/lake area. Upgrades were completed in 2010 to improve the existing holding cell, construct an additional short-term holding cell, install attenuation structures in the wetland area between the holding cells and Lagoon Lake, and between Lagoon Lake and Finger Lake, and to construct a wildlife exclusion fence around the sewage and solid waste disposal facilities.

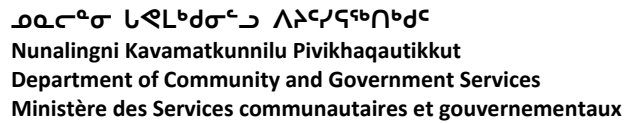
The Hamlet of Baker Lake's Solid Waste Disposal Facility is located adjacent to the wetlands and Finger Lake, immediately north of the community. The facility was constructed in 1991 and expanded in 1998. The facility consists of a fenced disposal area for municipal solid waste, and a separate storage area for bulky metals, hazardous wastes and waste oil. The Hamlet collects solid waste from community buildings from Monday to Friday for disposal at the Solid Waste Disposal Facility.

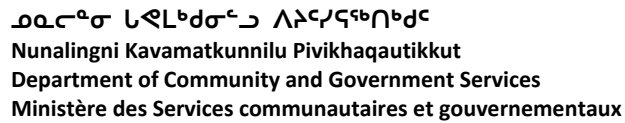


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## Water System

The GN-CGS is responsible for the operation and maintenance of the Water Treatment Facility and equipment within. The Hamlet supplies trucked services for scheduled water delivery to all houses and other buildings. The following table display the Baker Lake water consumption from 2009 and projected until 2037.



**Table 2: Baker Lake Water Consumption, 2011 – 2037**

Year	Population	RWU (lpcd)	Projected Daily Consumption (m <sup>3</sup> )	Projected Annual Consumption* (m <sup>3</sup> )
2011	1963	65.81	188	68,444
2012	1993	62.93	183	66,760
2013	2024	61.94	184	67,055
2014	2055	61.64	187	68,086
2015	2087	66.00	204	74,409
2016	2120	66.00	208	75,973
2017	2154	66.00	213	77,597
2018	2188	66.00	217	79,234
2019	2223	66.00	222	80,933
2020	2258	66.00	226	82,645
2021	2294	66.00	231	84,420
2022	2330	66.00	236	86,210
2023	2367	66.00	241	88,064
2024	2404	66.00	246	89,933
2025	2439	66.00	251	91,716
2026	2474	66.00	256	93,511
2027	2510	66.00	261	95,373
2028	2546	66.00	266	97,249
2029	2582	66.00	272	99,139
2030	2619	66.00	277	101,096
2031	2657	66.00	283	103,123
2032	2694	66.00	288	105,111
2033	2732	66.00	294	107,169
2034	2770	66.00	299	109,243
2035	2810	66.00	305	111,443
2036	2851	66.00	312	113,717
2037	2836	66.00	309	112,858

\* Annual Consumption is projected beyond 2014



The RWU (Residential Water Use) used in the projected annual consumption is 66 lpcd, based on the greatest RWU in the past 4-year period. This value was used in the water consumption projection to fit the actual demand of the community, even though it is less than the 90 lpcd RWU assumed in the MACA guidelines.

The Hamlet of Hamlet of Baker Lake utilizes Baker Lake as a potable water source with the authorized quantity of water not to exceed 100,000 cubic metres annually. The Amendment/Renewal Application is not requesting changes to the amount of water licensed. While the annual consumption is projected to exceed 100,000 cubic metres towards the end of the 22-year requested licence period, the 112,858 cubic metres consumption projected for 2037 exceeds the 300 cubic metres per day upper limit of a Type 'B' Licence. At such a time that the annual water consumption will exceed 100,000 cubic metres annually, the Licensee will apply for a Type 'A' Licence.

## Sewage System

The Baker Lake Sewage Disposal Facility is situated approximately 1.2 km north of the community and consists of a large holding cell, several flow attenuation structures and one lake. Upgrades to the sewage disposal facility were completed in the fall of 2010 and included:

- Upgrading of the previous short-term holding cell by strengthening its walls;
- Construction of an additional short-term holding cell to increase the initial retention time of effluent;
- Upgrading of the vacuum truck offloading point into the holding cells;
- Installation of attenuation structures in the wetland area between the holding cells and Lagoon Lake and between Lagoon and Finger Lake; and
- Construction of a fence around the sewage and solid waste disposal facilities to keep out wildlife (i.e., caribou).

Sewage is collected from the Hamlet's houses and other buildings by vacuum truck and discharged from one of two built out gravel pads. Effluent flows downslope over constructed corrugated metal and riprap spillways into the large holding cell. The holding cell measures approximately 120 m long by 20 m wide with a maximum depth of 1.7 m. The capacity of the holding cell is approximately 1,000 m<sup>3</sup>.

From the holding cell outlet, effluent flows downslope approximately 200 m into Lagoon Lake, through a field of flow attenuation riprap. From Lagoon Lake, effluent flows east approximately 300 m towards Finger Lake; the compliance point for effluent quality monitoring of the sewage treatment wetland has been set immediately prior to Finger Lake. A flow attenuation berm 150 m long with two 600 mm culverts is located within the 300 m stretch between Lagoon and Finger Lakes. This attenuation berm is oriented perpendicular to effluent flow, slowing and widening the flow and allowing for better treatment within the wetland. The sewage treatment

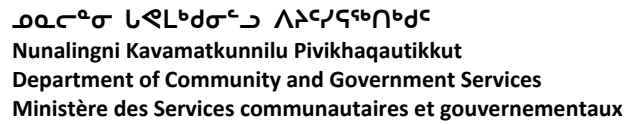


A 2.44 m (8 feet) high by 2.2 km long chain-link fence is also installed around the sewage and solid waste disposal facilities. This fence, completed in 2010, was installed to keep wildlife out of the sewage treatment area and prevent wildlife from feeding within the treatment area.

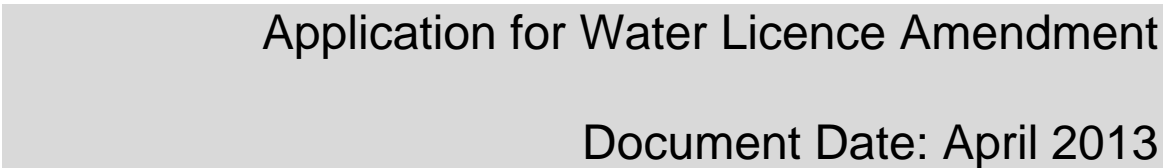
The Solid Waste Disposal Facility at Baker Lake is situated near the south shore of Finger Lake and adjacent to the Sewage Disposal Facility. The facility was constructed in 1991 and expanded in 1998 to improve compliance. The facility consists of a fenced disposal area for municipal solid waste and a separate storage area for bulk metal, hazardous wastes and waste oil.

Some smaller metal wastes are stored within the municipal solid waste disposal area, however most large metals wastes are disposed of at the bulky metals/hazardous waste disposal area. The bulky metals wastes typically disposed of by the community include items such as automobiles, heavy equipment, appliances, old fuel tanks, and other bulky metal wastes.

Water Licence No. 3BM-BAK1015  
Hamlet of Baker Lake, Nunavut



Water Licence No. 3BM-BAK1015  
Hamlet of Baker Lake, Nunavut



03/06/2015  
Month/Day/Year

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NUNAVUT IMALIRIYIN KATIMAYIT  
NUNAVUT WATER BOARD  
OFFICE DES EAUX DU NUNAVUT



## DOCUMENT MANAGEMENT

Original Document Date: April 2010

### DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document from NWB Guide 7	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	New NWB logo; request for background information; and change to Block 24	April 2013
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



P.O. Box 119

GJOA HAVEN, NU X0B 1J0

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NUNAVUT WATER BOARD

NUNAVUT IMALIRIYIN KATIMAYIT

OFFICE DES EAUX DU NUNAVUT

## APPLICATION FOR WATER LICENCE AMENDMENT

The applicant is referred to the NWB's Guide 7: *Licensee Requirements Following the Issuance of a Water Licence* for more information about this application form.

Where possible, provide background information regarding the original licence application or attach previously submitted information.

EXISTING LICENCE NO: 3BM-BAK1015

### 1. LICENSEE CONTACT INFORMATION

Is the licensee the same as that referred to on the existing licence?

☒ Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB. **An amendment will only be issued in the name of the current licensee in the absence of assignment of the licence.**

If the licensee is the same, but the name of the licensee has changed, attach a certificate of name change.

Name: **Dennis Zettler, Senior Administrative Officer**  
**Hamlet of Baker Lake**

Address: **P.O. Box 149, Baker Lake, Nunavut, X0B 0B0**

Phone: **(867) 793-2874**

Fax: **(867) 793-2509**

e-mail: **blsao@xplornet.ca**

### 2. LICENSEE REPRESENTATIVE CONTACT INFORMATION – If different from Block 1.

Name: **Megan Lusty, EIT**  
**Regional Municipal Planning Engineer-In-Training**

Address: **P.O. Box 490, Rankin Inlet, Nunavut, X0C 0G0**

Phone: **(867) 645-8176**

Fax: **(867) 645-8196**

e-mail: **mlusty@gov.nu.ca**

(Attach authorization letter.)

### 3. NAME OF PROJECT

Has the name of the project changed?

☐ Yes ☒ No

If Yes, indicate the name of the project including the name of the location: \_\_\_\_\_

### 4. LOCATION OF UNDERTAKING

Does the proposed amendment change the location of the amended undertaking?

☐ Yes ☒ No

Provide the project extents and camp locations. Identify proposed changes.

#### Project Extents

NW: Latitude: ( ° ' " N)

Longitude: ( ° ' " W)

NE: Latitude: ( ° ' " N)

Longitude: ( ° ' " W)

SE: Latitude: ( ° ' " N)

Longitude: ( ° ' " W)

SW: Latitude: ( ° ' " N)

Longitude: ( ° ' " W)

#### Camp Location(s)

Latitude: (64° 19' N)

Longitude: (96° 02' W)

### 5. MAP

Does the proposed amendment change the locations of any of the main components of the undertaking?

☐ Yes ☒ No

Attach a topographical map, indicating the main components of the undertaking. Identify proposed changes.

NTS Map Sheet No.: \_\_\_\_\_ Map Name: \_\_\_\_\_ Map Scale: \_\_\_\_\_

**6. NATURE OF INTEREST IN THE LAND**

Does the proposed amendment change the nature of the interest in the land?

☐ Yes ☒ No

If Yes, indicate changes. \_\_\_\_\_

Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).

**Sub-surface**

☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Mineral Lease from Indian and Northern Affairs Canada (INAC)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

**Surface**

☐ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ IOL Authorization from Kivalliq Inuit Association (KivIA)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ IOL Authorization from Qikiqtani Inuit Association (QIA)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Commissioner's Land Use Authorization  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Other \_\_\_\_\_

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

Is the name of the entity(s) holding authorizations the same as that considered in the existing water licence?

☒ Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB.

Name of entity(s) holding authorizations:

\_\_\_\_\_

## 7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

Indicate the land use planning area in which the existing project is located.

- |                                       |                                              |
|---------------------------------------|----------------------------------------------|
| <input type="checkbox"/> North Baffin | <input checked="" type="checkbox"/> Keewatin |
| <input type="checkbox"/> South Baffin | <input type="checkbox"/> Sanikiluaq          |
| <input type="checkbox"/> Akunnig      | <input type="checkbox"/> West Kitikmeot      |

Does the proposed amendment change the land use planning area?

- ☐ Yes ☒ No

If yes, indicate the land use planning area in which the amended undertaking is located.

- |                                       |                                         |
|---------------------------------------|-----------------------------------------|
| <input type="checkbox"/> North Baffin | <input type="checkbox"/> Keewatin       |
| <input type="checkbox"/> South Baffin | <input type="checkbox"/> Sanikiluaq     |
| <input type="checkbox"/> Akunnig      | <input type="checkbox"/> West Kitikmeot |

Was a land use plan conformity determination required from NPC prior to the issuance of the existing water licence?

- ☒ Yes ☐ No

If Yes, indicate date issued and attach copy. August 17, 2009 (original), May 19, 2011 (amendment)

Does the proposed amendment change the original NPC conformity determination or the need to obtain one?

- ☐ Yes ☒ No

If Yes, indicate date issued (or expected) and attach a copy. May 19, 2011

If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

## 8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Was a screening determination required from NIRB prior to the issuance of the existing water licence?

- ☒ Yes ☐ No

If Yes, indicate date issued and attach copy. \_\_\_\_\_

Does the proposed amendment change the original NIRB screening determination or the need to obtain one?

- ☐ Yes ☒ No

If Yes, indicate date issued (or expected) and attach a copy. \_\_\_\_\_

If No, provide written confirmation from NIRB confirming that a screening determination is not required.

**9. DESCRIPTION OF UNDERTAKING**

Does the proposed amendment change the description of the undertaking?

☐ Yes ☒ No

List and attach plans and drawings or project proposal. Identify proposed changes.

**10. OPTIONS**

Does the proposed amendment change any of the alternative methods and locations that were considered to carry out the project?

☐ Yes ☒ No

Provide a brief explanation of the alternative methods or locations that were considered to carry out the project. Identify proposed changes.

**11. CLASSIFICATION OF PRIMARY UNDERTAKING**

Indicate the primary classification of undertaking for the existing licence by checking one of the following boxes:

- |                                                                                               |                                                          |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <input type="checkbox"/> Industrial                                                           | <input type="checkbox"/> Agricultural                    |
| <input type="checkbox"/> Mining and Milling (includes exploration/drilling/exploration camps) |                                                          |
| <input type="checkbox"/> Conservation                                                         | <input type="checkbox"/> Recreational                    |
| <input checked="" type="checkbox"/> Municipal (includes camps/lodges)                         | <input type="checkbox"/> Miscellaneous (describe below): |
| <input type="checkbox"/> Power                                                                |                                                          |

Does the proposed amendment change the classification of primary undertaking?

☐ Yes ☒ No

If Yes, indicate the primary undertaking of the amendment: \_\_\_\_\_

Information in accordance with applicable Supplemental Information Guidelines (SIG) must be updated and submitted with an Application for Amendment. Indicate which SIG(s) are applicable to your application.

- ☐ Hydrostatic Testing
- ☐ Tannery
- ☐ Tourist / Remote Camp
- ☐ Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil
- ☐ Onshore Oil and Gas Exploration Drilling
- ☐ Mineral Exploration / Remote Camp
- ☐ Advanced Exploration
- ☐ Mine Development
- ☒ Municipal
- ☐ General Water Works
- ☐ Power

## 12. WATER USE

Indicate, using the boxes below, the types of water use(s) approved in the existing licence.

- |                                                                                  |                                                                     |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input checked="" type="checkbox"/> To obtain water for camp/ municipal purposes | <input type="checkbox"/> To divert a watercourse                    |
| <input type="checkbox"/> To obtain water for industrial purposes                 | <input type="checkbox"/> To modify the bed or bank of a watercourse |
| <input type="checkbox"/> To cross a watercourse                                  | <input type="checkbox"/> Flood control                              |
| <input type="checkbox"/> To alter the flow of, or store water                    |                                                                     |
| <input type="checkbox"/> Other: _____                                            |                                                                     |

Does the proposed amendment change the type(s) of water use(s)?

☐ Yes ☒ No

If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of water use(s) noting any water use(s) that are to be added, continued, or removed.

- |                                                                       |                                                                     |
|-----------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> To obtain water for camp/ municipal purposes | <input type="checkbox"/> To divert a watercourse                    |
| <input type="checkbox"/> To obtain water for industrial purposes      | <input type="checkbox"/> To modify the bed or bank of a watercourse |
| <input type="checkbox"/> To cross a watercourse                       | <input type="checkbox"/> Flood control                              |
| <input type="checkbox"/> To alter the flow of, or store water         |                                                                     |
| <input type="checkbox"/> Other: _____                                 |                                                                     |

## 13. QUANTITY OF WATER INVOLVED

Does the proposed amendment change the source of water? ☐ Yes ☒ No

Indicate the water source(s). Identify proposed changes.:

Baker Lake

(show location(s) on map)

Does the proposed amendment change the quality of the water source and/or its available capacity?

☐ Yes ☒ No

Describe the quality of the water source(s) and the available capacity(s). Identify any changes.: \_\_\_\_\_

Does the proposed amendment change the overall quantity of water to be used?

☐ Yes ☒ No

Provide the overall estimated quantity to be used. Identify proposed changes. : **100,000 m<sup>3</sup>/year**

Does the proposed amendment change the quantity of water to be used from each source?

☐ Yes ☒ No

Provide the estimated quantity(s) of water to be used from each source. Identify proposed changes. : \_\_\_\_\_



Does the proposed amendment change the quantity of water to be used for each purpose?

☐ Yes ☒ No

Provide the estimated quantities to be used for each purpose (camp, drilling, etc.). Identify proposed changes.:

---

Does the proposed amendment change the method(s) of extraction?

☐ Yes ☒ No

Describe the method(s) of extraction. Identify proposed changes. : **Intake pipe from Baker Lake to Water Treatment Plant**

Does the proposed amendment change the quantity(s) of water returned to source(s)?

☐ Yes ☒ No

Estimated quantity(s) of water returned to source(s). Identify proposed changes. : \_\_\_\_\_ m<sup>3</sup>/day

Does the proposed amendment change the quality(s) of water returned to source(s)?

☐ Yes ☒ No

Describe the quality(s) of water(s) returned to source(s). Identify any changes. : \_\_\_\_\_

---

#### 14. WASTE

Check the appropriate box(s) to indicate the types of waste(s) approved in the existing licence.

☒ Sewage

☒ Solid Waste

☒ Hazardous

☒ Bulky Items/Scrap Metal

☐ Animal Waste

☐ Other (describe): \_\_\_\_\_

☐ Waste oil

☐ Greywater

☐ Sludges

☐ Contaminated soil and/or water

Does the proposed amendment change the type(s) of waste(s) to be generated or deposited?

☐ Yes ☒ No

If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of waste(s) to be generated and/or deposited noting the addition, removal or continued generation and/or disposal of waste(s).

☐ Sewage

☐ Solid Waste

☐ Hazardous

☐ Bulky Items/Scrap Metal

☐ Animal Waste

☐ Other (describe): \_\_\_\_\_

☐ Waste oil

☐ Greywater

☐ Sludges

☐ Contaminated soil and/or water

## 15. QUANTITY AND QUALITY OF WASTE INVOLVED

Does the proposed amendment change the quantity(s) of the types of wastes involved?

☒ Yes ☐ No

Does the proposed amendment change the composition(s) of the types of wastes involved?

☐ Yes ☒ No

Does the proposed amendment change the method(s) of treatment for the types of waste involved?

☐ Yes ☒ No

Does the proposed amendment change the method(s) of disposal for the types of waste involved?

☐ Yes ☒ No

If Yes to any of the above, describe the proposed changes:

For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Sewage	Greywater, washroom waste, etc. collected from sewage tanks; backwash water from Water Treatment Plant	100,000 m <sup>3</sup> /year	Sewage detention cell and wetlands area	Truck discharge to sewage detention cells, natural effluent release through controlled outlets to wetlands area
Household Solid Waste	Household waste, small metal waste, tires, electronics, paper, wood, etc.	unknown	Compact and cover with granular material	Collections from community bins and drop-off at solid waste site
Hazardous Waste	Batteries, paint, antifreeze, etc.	unknown	Segregate from household solid waste	Store in seacans, batteries in lined battery boxes
Bulky Items/Scrap Metal	Autobody parts, snowmobiles, atvs, appliances, etc.	unknown	Segregate from household solid waste	Compact and cover with granular material in bulky metals area

**16. OTHER AUTHORIZATIONS**

Does the proposed amendment change the need for other authorizations in addition to the sub-surface and surface land use authorizations provided in Block 6?

☐ Yes ☒ No

If Yes, indicate any additional authorizations required, which authorizations are no longer required, and which authorizations continue to be required.

For each provide the following:

Authorization: \_\_\_\_\_

Administering Agency: \_\_\_\_\_

Project Activity: \_\_\_\_\_

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

**17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES**

Does the proposed amendment change the predicted environmental impacts of the undertaking or the mitigation measures?

☐ Yes ☒ No

Describe direct, indirect, and cumulative impacts related to water and waste. Identify any changes.

**18. WATER RIGHTS OF EXISTING AND OTHER WATER USERS**

Was compensation paid and/or an agreement(s) for compensation been entered into with any existing or other users of water during consideration of the existing licence?

☐ Yes ☒ No

If Yes, provide the names, addresses and the nature of water use by those persons or properties.

Does the proposed amendment adversely affect any known persons or property including those that hold licences for water use in precedence to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature?

☐ Yes ☒ No

If Yes, provide the names, addresses and the nature of water use of those persons or properties.

Advise the Board if compensation has been paid and/or an agreement(s) for compensation has been reached with any existing or other water users with respect to the proposed amendment.

**19. INUIT WATER RIGHTS**

Was compensation paid/ or an agreement(s) for compensation been entered into with any Designated Inuit Organization (DIO) during consideration of the existing licence?

☐ Yes ☒ No

If Yes, which DIO(s) \_\_\_\_\_

Does the proposed amendment substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL)?

☐ Yes ☒ No

If Yes, advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more DIO(s) with respect to the proposed amendment.

**20. CONSULTATION** - Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

N/A

**21. SECURITY INFORMATION**

Does the proposed amendment change the financial security assessment?

☐ Yes ☒ No

Does the proposed amendment change the estimate of the total financial security for final reclamation?

☐ Yes ☒ No

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken. Identify any changes in the financial security assessment resulting from the proposed amendment.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

N/A

## 22. FINANCIAL INFORMATION

Is the statement of financial security the same as that considered in the existing water licence?

☒ Yes ☐ No

Provide an updated statement of financial security.

If the applicant is a business entity please answer the questions below:

Is the list of the officers of the company the same as those considered in the existing water licence?

☒ Yes ☐ No

Provide a list of the officers of the company.

Is the Certificate of Incorporation or evidence of registration of the company name the same?

☒ Yes ☐ No

Attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

## 23. STUDIES UNDERTAKEN TO DATE

List and attach updated studies, reports, research etc.

- **Cover Letter to the NWB;**
- **Executive Summary;**
- **Executive Summary Inuktitut Translation;**
- **Community Background;**
- **NPC Conformity Determination:**
  - Letter from Bobby Suluk, NPC, to Phyllis Beaulieu, NWB, and Leslie Payette, NIRB, dated August 17, 2009;
  - Email from Brian Aglukark, NPC, to Arlen Foster, FSC, dated May 19, 2011;
- **NIRB Screening Exemption:**
  - Letter from Tannis Bolt, NIRB, to Phyllis Beaulieu, NWB, dated May 19, 2011;
- **Hamlet of Baker Lake - Plan for Compliance, March 6, 2015;**
- **2014 Annual Report;**
- **Operations and Maintenance Manual for the Water, Sewage and Solid Waste Facilities, Baker Lake, NU prepared by Nunami Stantec, June, 2011;**
  - *Water Distribution System Operations and Maintenance (Section 3);*
  - *Sewage Disposal Facilities Operations and Maintenance (Section 4);*
  - *Solid Waste Disposal Facilities Operations and Maintenance (Section 5);*
  - *Emergency Response and Spill Contingency Plan (Section 6);*
- **Abandonment and Restoration Plan for the Water, Sewage and Solid Waste Facilities, Baker Lake, NU prepared by Nunami Stantec, July 2011; and**
- **Quality Assurance/Quality Control Plan for the Hamlet of Baker Lake's Licensed Monitoring Program prepared by Nunami Stantec, April 2011.**

Provide a compliance assessment and status report including a response to any inspector's reports. The licensee must contact the NWB for licence specific direction in completing the assessment and report.

If in non-compliance, a licence may not be issued until compliance is achieved. If in non-compliance, attach plans/reports for consideration. Application will not be processed if significant issues of non-compliance exist.

## 24. PROPOSED TIME SCHEDULE

When are proposed amendments scheduled to be undertaken: Upon licence issuance

Does the proposed amendment change the time schedule considered in the existing licence for any phase of development?

☐ Yes ☒ No

Indicate the start and completion dates for each applicable phase of development (construction, operation, closure, and post closure). Identify proposed changes.

### Construction

Proposed Start Date: \_\_\_\_\_ Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

### Operation

Proposed Start Date: July 2015 Proposed Completion Date: Ongoing  
(month/year) (month/year)

### Closure

Proposed Start Date: \_\_\_\_\_ Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

### Post - Closure

Proposed Start Date: \_\_\_\_\_ Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

For each applicable phase of development indicate which season(s) activities occur.

### Construction

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

### Operation

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☒ All season

### Closure

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

### Post - Closure

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season





## 27. CHECKLIST

The following must be included with the application for Amendment for the water licensing process to begin.

Completed Application for Water Licence Amendment form.

X Yes ☐ No If no, date expected \_\_\_\_\_

**Information addressing Supplement Information Guideline (SIG), where applicable (see Block 11)**

X Yes ☐ No If no, date expected \_\_\_\_\_

Compliance Assessment / Status Report (see Block 23).

X Yes ☐ No If no, date expected \_\_\_\_\_

Indication of Renewal Requirement (see Block 26)

X Yes ☐ No If no, date expected \_\_\_\_\_

English Summary of Amendment Application.

X Yes ☐ No If no, date expected \_\_\_\_\_

Inuktitut and/or Inuinnaqtun Summary of Amendment Application.

X Yes ☐ No If no, date expected \_\_\_\_\_

Application fee of \$30.00 CDN (Payee Receiver General for Canada).

☐ Yes ☒ No If no, date expected March 20, 2015

Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

☐ Yes ☐ No If no, date expected N/A

## 28. SIGNATURE

DENNIS ZETTLER

Name (Print)

SAO

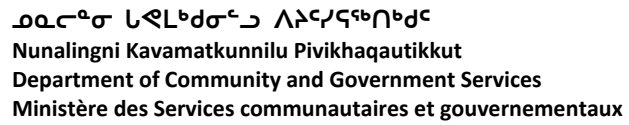
Title (Print)

*D. Zettler*

Signature

Mar 6 / 15

Date



31

August 17, 2009



Ms. Phyllis Beaulieu  
Manager of Licensing  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, NU., X0B 1J0  
Fax # 867 360 6369

Ms. Leslie Payette  
Manager, Environmental Administration  
Nunavut Impact Review Board  
P.O. Box 1360  
Cambridge Bay, NU., X0B 0C0  
Fax # 867 983 2594

Dear Ms. Beaulieu, Ms. Payette,

**Re [NWB 3BM-BAK9904 Municipal Water- Hamlet of Baker Lake-August 2009]**

The NPC has completed its review of the above noted project proposal. It conforms to the Keewatin Regional Land Use Plan (KRLUP), subject to the attached.

By this letter and additional enclosures, the NPC is forwarding the project proposal with this determination to NIRB for screening.

The applicant has undertaken to comply with the attached requirements. The authorizing agencies to which this letter is addressed are responsible under the *Nunavut Land Claims Agreement* to implement any of the attached requirements by incorporating the requirements directly, or otherwise ensuring that they must be met, in the terms and conditions of any authorizations issued.

My office would be pleased to discuss with these agencies how best to implement these requirements and to review any draft authorizations that the agencies wish to provide for that purpose.

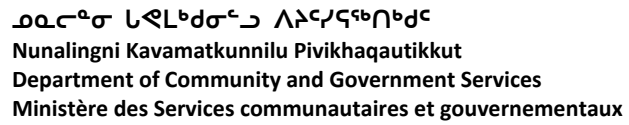
This conformity determination applies only to the above noted applications as submitted. Therefore, the proponent must ensure other applications for a permit under this project proposal not listed above are forwarded to NPC for a conformity determination against the KRLUP, and please notify the NPC immediately if any material change to the project proposal is made before authorizations are issued.

Yours Truly,

A handwritten signature in black ink, appearing to read 'Bobby Suluk', is positioned above the printed name.

Bobby Suluk,  
Co-ordinator, Regional Planning  
NPC, Arviat

CC. Gary Perkison, Hamlet of Baker Lake, Nunavut



Water Licence No. 3BM-BAK1015  
Hamlet of Baker Lake, Nunavut

## Richard Dwyer

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**From:** Brian Aglukark [aglukark@nunavut.ca]  
**Sent:** Thursday, May 19, 2011 10:53 AM  
**To:** Arlen Foster; Phyllis Beaulieu  
**Cc:** Richard Dwyer  
**Subject:** RE: 20070650 Baker Lake Water Licence Amendment - NPC Confirmation

Good morning Arlen;

E mail is to confirm that the noted proposal listed above will not require an NPC conformity determination. If you have any questions and or concerns, please do not hesitate to contact me.

Thank You,

Brian Aglukark, NPC

Arviat

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**From:** Arlen Foster [<mailto:arlenf@fsc.ca>]  
**Sent:** Monday, May 16, 2011 10:21 AM  
**To:** Brian Aglukark  
**Subject:** 20070650 Baker Lake Water Licence Amendment - NPC Confirmation

Hello Brian,

FSC Architects & Engineers is undertaking upgrades to the existing water treatment facility for the Community of Baker Lake. As part of the process, we are required to submit to the Nunavut Water Board required information regarding the upgrades. Part of this process is contacting the Nunavut Planning Commission (NPC) to attain written confirmation from NPC stating that conformity is not required as the upgrades to the water Treatment Facility are for the Community of Baker Lake itself.

Please submit written confirmation, if you have any questions or comments, please do not hesitate to contact me.

I thank you in advance for your response as time is of the essence for this project.

Regards,

**Arlen Foster, E.I.T.** | Environmental Engineering

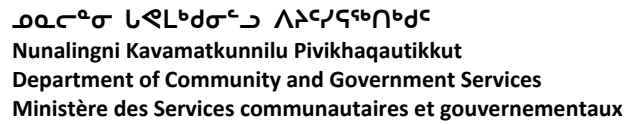
**FSC ARCHITECTS & ENGINEERS**

Yellowknife, Northwest Territories, Canada | T 867.920.2882, F 867.920.4319 | [www.fsc.ca](http://www.fsc.ca)

LISTEN. DESIGN. MANAGE

**CONFIDENTIALITY WARNING:**

This e-mail message and attachments may contain privileged and confidential information. If you have received this message in error, please immediately notify the sender and delete this e-mail message.



Water Licence No. 3BM-BAK1015  
Hamlet of Baker Lake, Nunavut



**NIRB File No.: EX131**

**Previous NWB File No.: 3BM-BAK1015**

May 19, 2011

Phyllis Beaulieu  
Manager of Licensing  
Nunavut Water Board  
Gjoa Haven, NU X0B 1J0

Via email: [licensing@nunavutwaterboard.org](mailto:licensing@nunavutwaterboard.org)

**Re: Application exempt from Screening pursuant to NLCA Schedule 12-1: FSC Architects and Engineers' "Baker Lake Water Treatment Facility Upgrades" project proposal**

Dear Phyllis Beaulieu:

On May 16, 2011 the Nunavut Impact Review Board (NIRB) received an email from FSC Architects and Engineers – Arlen Foster regarding its "Baker Lake Water Treatment Facility Upgrades" project proposal. Please be advised that this project proposal is exempt from screening pursuant to items 3 and 5 of Schedule 12-1 of the Nunavut Land Claims Agreement (NLCA), Types of Project Proposals Exempt from Screening:

NLCA Schedule 12-1 (3, 5):

Item 3: *"All construction, operation and maintenance of all buildings and services within an established municipality, except for bulk storage of fuel, power generation within nuclear fuels, or hydro power and any industrial activity."*

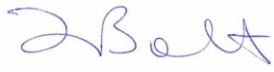
Item 5: *"Water uses that do not require a public hearing under Section 13.7.3."*

As this project proposal is exempt from the requirement for Screening by the NIRB, authorizations associated with this proposal may be processed by your office. If this application is associated with a project proposal which has previously been screened by the NIRB, the NIRB's Screening Decision Report may contain recommendations which are relevant to your organization. Screening Decision Reports can be accessed online from the NIRB's public registry using the following link: <http://ftp.nirb.ca/01-SCREENINGS/COMPLETED%20SCREENINGS/>

If you have any questions or require additional clarification, please contact the undersigned directly at [tbolt@nirb.ca](mailto:tbolt@nirb.ca) or 867 983 4603.



Best regards,



Tannis Bolt  
Environmental Administrator

Nunavut Impact Review Board

cc: Arlen Foster, FSC Architects and Engineers  
Brian Aglukark, Nunavut Planning Commission



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

## Plan for Compliance

**HAMLET OF BAKER LAKE - PLAN FOR COMPLIANCE**  
**NWB LICENCE NO. 3BM-BAK1015**  
**06/03/2015**

Licence Condition		Status of Compliance	Short Term Plan for Compliance	Responsibility	Schedule of Implementation	Long Term Plan for Compliance
<b>PART B</b>	<b>GENERAL CONDITIONS</b>					
B-1	The Licensee shall submit an Annual Report to the Board for review, not later than March 31st of the year following the calendar year reported.	<i>Failure to submit annual reports as required (AANDC Multi Year Compliance Summary, February 22, 2012).</i>	Annual Reports for 2010, 2011, 2012 and 2013 were submitted on time. The 2014 Annual Report will be completed and submitted to the NWB.	Hamlet of Baker Lake with assistance from CGS as needed	Annual Reports for 2010, 2011, 2012 and 2013 were submitted on time. The 2014 Annual Report will be completed and submitted to the NWB on March 6, 2015.	Annual Reports will be submit prior to the March 31st deadline each year.
B-5	The Licensee shall post signs in the appropriate areas to inform the public of the locations of the Water Supply Facilities and the Waste Disposal Facilities. All signage postings shall be in the Official Languages of Nunavut.	<i>Failure to install and maintain adequate signage (AANDC Multi Year Compliance Summary, February 22, 2012).</i>	Signage for the Monitoring Program Stations will be ordered over the winter for installation summer 2015.	Hamlet of Baker Lake with assistance from CGS	Signage will be installed by August 30, 2015.	Signage will be checked annually and repaired/replaced as needed. Notice of repair/replacement will be included in the Annual Report.
B-7	The Licensee shall ensure a copy of the Licence is maintained at the Municipal Office at all times.	<i>Failure to maintain a copy of the License at the Municipal Office (AANDC Multi Year Compliance Summary, February 22, 2012).</i>	Ensure copy of Licence is kept in Hamlet Office.	Hamlet of Baker Lake	Immediate	Update Licence copy when new Licence is issued.
B-8	The Licensee shall submit one paper copy and one electronic copy of all reports, studies and plans to the Board. Reports or studies submitted to the Board by the Licensee shall include a detailed executive summary in Inuktitut.	<i>Failure to provide copies of reports and Plans in the specified number and format (AANDC Multi Year Compliance Summary, February 22, 2012).</i>	Submit one paper and one electronic copy of all reports, studies, and plans to the NWB.	Hamlet of Baker Lake	Ongoing	Submit one paper and one electronic copy of all reports, studies, and plans to the NWB.
B-10	The Licensee shall submit to the Board for approval, within ninety (90) days following renewal of the licence, a <u>Plan for Compliance</u> that clearly demonstrates the measures the Licensee will undertake, including an implementation schedule, to achieve full compliance with the conditions of this Licence, including issues raised in the Inspector's Reports.	<i>Non-compliance</i>	Complete Compliance Plan for Water Licence No. 3BM-BAK1015.	Hamlet of Baker Lake with assistance from CGS as needed	Compliance Plan was submitted as part of the Amendment/Renewal Application March 6, 2015.	Target dates set in Compliance Plan will be met to work towards bringing Water Licence No. 3BM-BAK1015 towards full compliance. The Compliance Plan will be updated with the status of outstanding conditions and submitted with the Annual Report or as requested by the NWB.
B-12	The Licensee shall, for all Plans submitted under this Licence, implement the Plan as approved by the Board in writing.	<i>Non-compliance</i>	Plans previously submitted to the NWB will be reviewed and implemented as outlined.	Hamlet of Baker Lake	Ongoing	Future plans will be implemented as approved by the NWB.

**HAMLET OF BAKER LAKE - PLAN FOR COMPLIANCE**  
**NWB LICENCE NO. 3BM-BAK1015**  
**06/03/2015**

B-13	The Licensee shall review the Plans referred to in this Licence, as required by changes in operation and/or technology, and modify the Plan accordingly. Revisions to the Plans are to be submitted to the Board for review, in the form of an Addendum to be included with the Annual Report.	<i>Non-compliance</i>	Plans previously submitted to the NWB will be reviewed and implemented as outlined.	Hamlet of Baker Lake	Ongoing	Future plans will be implemented as approved by the NWB.
<b>PART E</b>	<b>CONDITIONS APPLYING TO MODIFICATION AND CONSTRUCTION</b>					
E-5	The Licensee shall submit to the Board for review, as-built drawings signed and stamped by an Engineer, for upgrades to the Sewage Disposal Facility and the fence around the Waste Disposal Facilities if constructed, within ninety (90) days of the renewal of this Licence, or, within ninety (90) days of completion of the upgrades. These plans and drawings shall be stamped and signed by an Engineer.	<i>Non-compliance</i>	As-built drawings of the Sewage System Improvements and the Wildlife Fencing Project were submitted with Amendment/Renewal Application March 6, 2015.	CGS	As-built plans and drawings will be provided to the NWB within 90 days of completion of future construction and modifications.	As-built plans and drawings will be provided to the NWB within 90 days of completion of future construction and modifications.
E-11	The Licensee shall submit to the Board for review, as-built drawings, signed and stamped by an engineer, within ninety (90) days of completion of all improvements to the Water Supply Facilities.	<i>Non-compliance</i>	As-built drawings for the Water Supply Facilities were submitted with Amendment/Renewal Application March 6, 2015.	CGS	As-built plans and drawings will be provided to the NWB within 90 days of completion of future construction and modifications.	As-built plans and drawings will be provided to the NWB within 90 days of completion of future construction and modifications.
<b>PART F</b>	<b>CONDITIONS APPLYING TO OPERATION AND MAINTENANCE</b>					
F-1	The Board has approved the Manual entitled "Operation and Maintenance Manual for the Water, Sewage and Solid Waste Facilities" dated June 2011. The Licensee shall submit an addendum to the Manual to address the relevant comments and recommendations made by intervening parties including AANDC and EC during the review period.	<i>Failure to submit O&amp;M Manuals as required (AANDC Multi Year Compliance Summary, February 22, 2012).</i>	<i>Operation and Maintenance Plan for the Waste, Sewage and Solid Waste Facilities</i> was prepared by Nunami Stantec, June 2011. The O&M Plan will be updated and submitted to the NWB.	Hamlet of Baker Lake with assistance from CGS	The O&M Plan will be updated and submitted to the NWB prior to August 31, 2015.	The O&M Plan will be reviewed annually and the NWB will be notified of any changes/updates in the Annual Report.
F-2	An inspection of all engineered earthworks related to the management of water and waste shall be carried out annually in July or August by a Geotechnical Engineer. The engineer's report shall be submitted to the Board within Sixty (60) days of the inspection, including a covering letter from the Licensee outlining and implementation plan addressing each of the Engineer's recommendations.	<i>Requesting condition modification</i>	No annual inspections were conducted by a Geotechnical Engineer from 2010-2014 therefore no reports can be provided to the NWB.	CGS Rankin Inlet Municipal Engineer	Annual inspection of the engineered earthworks, including sewage lagoon berms will be completed by the CGS Municipal Engineer upon commissioning the new sewage lagoon.	Annual inspection of the sewage lagoon berms to be completed by the CGS Municipal Engineer. If any issues are found with the berm, appropriate measures will be taken for further study or repair of the berms. The annual berm inspection and any follow-up measure taken will be reported in the Annual Report.

**HAMLET OF BAKER LAKE - PLAN FOR COMPLIANCE**  
**NWB LICENCE NO. 3BM-BAK1015**  
**06/03/2015**

<b>PART G</b>	<b>CONDITIONS APPLYING TO ABANDONMENT, RESTORATION AND CLOSURE</b>					
G-1	The Board has approved the Plan entitled "Abandonment and Restoration Plan for the Water, Sewage and Solid Waste Facilities", dated July 2011. The Licensee shall submit an addendum to the Plan to address relevant comments and recommendation made by intervening parties including AANDC and EC during the review period.	<i>Failure to submit to the Board for approval an Abandonment and Restoration Plan (AANDC Multi Year Compliance Summary, February 22, 2012).</i>	<i>Abandonment and Restoration Plan for the Waste, Sewage and Solid Waste Facilities</i> was prepared by Nunami Stantec, July 2011. The A&R Plan will be updated and submitted to the NWB.	Hamlet of Baker Lake with assistance from CGS	The A&R Plan will be updated and submitted to the NWB prior to August 31, 2015.	The A&R Plan will be submitted to the NWB a minimum of six (6) months prior to the abandoning of any facilities.
<b>PART H</b>	<b>CONDITIONS APPLYING TO THE MONITORING PROGRAM</b>					
H-1	<p>The Licensee shall maintain Monitoring Program Stations and implement the program as described in the table below and the conditions under this BAK-1 - Raw water supply prior to treatment - <u>Volume</u>, monthly and annually - Active (volume)</p> <p>BAK-2 - Runoff from the Waste Disposal Facilities just prior to the inlet to Airplane Lake, prior to the culvert - <u>Water Quality</u>, monthly during periods of flow - Active (water quality)</p> <p>BAK-3 - Outlet of Airplane Lake at water's edge - <u>Water Quality</u>, annually during periods of flow - Active (water quality)</p> <p>BAK-4 - Runoff from the Solid Waste Disposal Facilities prior to Finger Lake - <u>Water Quality</u>, annually during periods of flow - Active (water quality)</p> <p>BAK-5 - Finger Lake at outlet of Wetland - <u>Water Quality</u>, annually during periods of flow (if present) - Active (water quality)</p>	<i>Partial compliance - some sampling being done</i>	Required sampling will occur at the Monitoring Program Stations described.	Hamlet of Baker Lake with assistance from CGS	Sampling results will be included in the Annual Reports to be submit prior to the March 31st deadline each year.	Sampling will take place annually and results will be included in the Annual Reports to be submit prior to the March 31st deadline each year.
H-2	The Licensee shall confirm the locations and GPS coordinates for all monitoring stations referred to in Part H Item 1 with an Inspector.	<i>Non-compliance</i>	GPS coordinates of all Monitoring Program Stations will be confirmed during the next AANDC Inspection.	Hamlet of Baker Lake with assistance from CGS	GPS coordinates of all Monitoring Program Stations will be confirmed during the next AANDC Inspection and provided to the NWB in the following Annual Report.	GPS coordinates of all Monitoring Program Stations will be confirmed during the next AANDC Inspection and provided to the NWB in the following Annual Report.

**HAMLET OF BAKER LAKE - PLAN FOR COMPLIANCE**  
**NWB LICENCE NO. 3BM-BAK1015**  
**06/03/2015**

H-8	The Licensee shall, within ninety (90) days following issuance of the Licence, submit to the Board a Quality Assurance/Quality Control (QA/QC) Plan. The Plan shall include up to date field sampling methods to all applicable standards, acceptable to an accredited laboratory confirming acceptance of the Plan for analyses to be performed under this Licence.	<i>Compliance</i>	<i>Quality Assurance/Quality Control Plan for the Hamlet of Baker Lake's Licensed Monitoring Program</i> was prepared by Nunami Stantec, April 2011. The QA/QC Plan will be updated and submitted to the NWB prior to the 2015 sampling season.	CGS with assistance from Hamlet of Baker Lake	The QA/QC Plan, with cover letter from an accredited lab confirming acceptance, be submitted to the NWB by April 30, 2015.	The QA/QC Plan will be reviewed annually and the NWB will be notified of any changes/updates in the Annual Report.
H-9	The Licensee shall annually review the QA/QC plan submitted under Part H, Item 8 and modify it as necessary. Revised plans shall be submitted to the NWB with an approval letter from an accredited lab that meets standards set in Part H, Item 6 and Item 7.	<i>Non-compliance</i>	The QA/QC Plan will be reviewed annually and the NWB will be notified of any changes/updates in the Annual Report.	Hamlet of Baker Lake with assistance from CGS	Modifications to the QA/QC Plan will be reviewed by an accredited lab for acceptance. A cover letter from an accredited lab will be included in submissions to the NWB.	The QA/QC Plan will be reviewed annually and the NWB will be notified of any changes/updates in the Annual Report. Modifications to the QA/QC Plan will be reviewed by an accredited lab for acceptance. A cover letter from an accredited lab will be included in submissions to the NWB.