



December 1, 2014

Hamlet of Aklavik
P.O. Box 88
Aklavik, NT X0E 0A0
Att: Fred Behrens, Senior Administrative Officer

Dear Mr. Behrens:

Re: Renewal of Hamlet of Aklavik Water Licence N3L3-0570

Attached is Water Licence N3L3-0570 granted to the Hamlet of Aklavik by the Inuvialuit Water Board (IWB) in accordance with the *Waters Act* for a period of five (5) years commencing December 1, 2014 and expiring November 30, 2019. Included with the attached Licence are the General Procedures for the Administration of Licences in the portion of the Inuvialuit Settlement Region that is within the Northwest Territories. Please review the Licence and the General Procedures carefully and address any questions to the IWB office in Inuvik.

A copy of this Licence and all documentation associated with the application for consideration of and issuance of this Licence has been filed in the Public Register at the IWB office in Yellowknife. Copies are available at the IWB office in Inuvik and on the IWB website. All inspection reports and other documentation related to the implementation of this Licence will also be filed in the Public Register. All Public Register material will be considered if an amendment to the Licence is requested.

The IWB appreciates the cooperation of the Hamlet of Aklavik in complying with the Terms and Conditions of the Licence. Should you have questions or concerns, please contact Mardy Semmler, Executive Director at (867) 678-2942.

Yours sincerely,

Eddie Dillon
Chair

Attachments

Copied to: Paul Sullivan, Chair GLWB
Distribution List

**GENERAL PROCEDURES FOR THE ADMINISTRATION OF LICENCES
ISSUED UNDER THE *WATERS ACT* IN THE PORTION OF THE INUVIALUIT
SETTLEMENT REGION THAT IS WITHIN THE NORTHWEST TERRITORIES**

1. At the time of issuance, a copy of the Licence is placed in the Public Register at the Inuvialuit Water Board (IWB) Office in Yellowknife. Copies are available at the IWB Office in Inuvik and on the IWB website.
2. To enforce the terms and conditions of the Licence, the Minister of Environment and Natural Resources has appointed Inspectors in accordance with Section 65(1) of the *Waters Act*. The Inspectors coordinate their activities with officials of the Water Resources Division of the Department of Environment and Natural Resources. The Inspector responsible for Licence No. N3L3-0570 is located in the Department of Environment and Natural Resources Office in Inuvik.
3. To keep the IWB and members of the public informed of the Licensee's conformity to Licence Terms and Conditions, the Inspectors prepare reports which detail observations on how each requirement of the Licence has been met. These reports are forwarded to the Licensee with a covering letter indicating what action, if any, should be taken. The inspection reports and covering letters are placed in the Public Register, as are any responses received from the Licensee pertaining to the inspection reports. Licensees must respond to all areas of concern outlined in the inspection reports.
4. If the renewal of Licence No. N3L3-0570 is contemplated it is the responsibility of the Licensee to apply to the IWB for renewal of the Licence. The past performance of the Licensee, new documentation and information, and points raised during a public hearing, if required, will be used to determine the terms and conditions of any Licence renewal. Please note that if the Licence expires and another has not been issued, then water and Waste disposal must cease, or you, the Licensee, would be in contravention of the *Waters Act*. It is suggested that an application for renewal of Licence No. N3L3-0570 be made at least eight months in advance of the Licence expiry date.
5. If, for some reason, Licence No. N3L3-0570 requires an amendment, a public hearing may be required. You are reminded that applications for amendments should be submitted as soon as possible to provide the IWB with ample time to go through the amendment process. The process may take up to six (6) months or more depending on the scope of the amendment requested.

6. Specific clauses of your Licence make reference to the IWB, Analyst or Inspector. The contact person, address, phone and fax number of each is:

BOARD: Executive Director
Inuvialuit Water Board
Box 2531
INUUVIK, NT X0E 0T0
Phone No: (867) 678-2942
Fax No: (867) 678-2943

ANALYST: Analyst
Taiga Environmental Laboratory
Environment and Natural Resources
Government of the NWT
P.O. Box 1320
YELLOWKNIFE, NT X1A 2L9
Phone No: (867) 765-6644
Fax No: (867) 873-2652

INSPECTOR: Inspector
Environment and Natural Resources
Government of the Northwest Territories
P.O. Box 2749
INUUVIK, NT X0E 0T0
Phone No: (867) 678-6650
Fax No: (867) 678-6659

INUVIALUIT WATER BOARD

Pursuant to the *Waters Act* and Waters Regulations the Inuvialuit Water Board, hereinafter referred to as the Board, hereby grants to

The Hamlet of Aklavik

of P.O. Box 88
Aklavik NT X0E 0A0
(Mailing Address)

hereinafter called the Licensee, the right to alter, divert or otherwise use water as provided for under the *Waters Act* and Waters Regulations and subject to and in accordance with the terms and conditions specified in this Licence.

Licence Number N3L3-0570

Licence Type "B"

Water Management Area NORTHWEST TERRITORIES 3

Location Latitude 68° 14' 05" N and Longitude
135° 02' 33" W
NORTHWEST TERRITORIES

Purpose MUNICIPAL WASTE DISPOSAL

Quantity of Water Not
To Be Exceeded NOT APPLICABLE

Effective Date of Licence December 1, 2014

Expiry Date of Licence November 30, 2019

This Licence issued and recorded at Inuvik includes and is subject to the annexed conditions.

INUVIALUIT WATER BOARD



Chair

N3L3-0570 – Hamlet of Aklavik Municipal Water Licence
Terms and Conditions

PART A: SCOPE AND DEFINITIONS

1. Scope

- a. This Licence entitles the Hamlet of Aklavik to dispose of Waste for municipal purposes at the Hamlet of Aklavik, latitude 68°14'05" North and longitude 135°02'33" West, Northwest Territories.
- b. This licence should be interpreted in the context of the Gwich'in Land and Water Board Licence G99L3-003 which licenses municipal Water use for the Hamlet of Aklavik.
- c. Licence No. N3L3-0570 is renewed subject to the conditions contained herein with respect to the depositing of Waste of any type in any Waters or in any place under any conditions where such Waste or any other Waste that results from the deposits of such Waste may enter any Waters. Whenever new Regulations are made or existing Regulations are amended by the Commissioner in Executive Council under the *Waters Act*, or other statutes imposing more stringent conditions relating to the quantity or type of Waste that may be so deposited or under which any such Waste may be so deposited, this Licence shall be deemed, upon promulgation of such Regulations, to be automatically amended to conform with such Regulations.
- d. Compliance with the terms and conditions of this Licence does not absolve the Licensee from responsibility for compliance with the requirements of all applicable Federal, Territorial and Municipal legislation.
- e. This Licence is issued subject to the conditions contained herein with respect to the Use of Waters and Deposit of Waste as prescribed in section 2 of the *Act*.

2. Definitions

In this Licence: **N3L3-0570**

"Act" means the *Waters Act*;

"Analyst" means an Analyst designated by the Minister under Section 65(1) of the *Waters Act*;

"Average Concentration" means the discrete average of up to four consecutive analytical results submitted in any single calendar year to the Board in accordance with the sampling and analysis requirements specified in the "Surveillance Network Program";

“Average Concentration For Faecal Coliforms” means the running geometric mean of up to four consecutive analytical results submitted in any single calendar year to the Board in accordance with the sampling and analysis requirements specified in the “Surveillance Network Program”;

“Bagged Toilet Wastes Disposal Facilities” comprises the area and associated structures designed to contain bagged Toilet Wastes (honey bags);

“Board” means the Inuvialuit Water Board continued under Section 13 (1) of the *Waters Act*;

“Engineer” means a Professional Engineer registered with the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists;

“Greywater” means all liquid wastes from showers, baths, sinks, kitchens and domestic washing facilities, but does not include Toilet Wastes;

“Inspector” means an Inspector designated by the Minister under Section 65(1) of the *Waters Act*;

“Licensee” means the holder of this Licence;

“Minister” means the Minister of Environment and Natural Resources;

“Pump-out Sewage” means all Toilet Wastes and/or Greywater collected by means of a vacuum truck for disposal at an approved facility;

“Regulations” means Regulations proclaimed pursuant to Section 63 of the *Waters Act*;

“Sewage” means all Toilet Wastes and/or Greywater;

“Sewage Disposal Facilities” comprises the area and engineered structures designed to contain Sewage;

“Solid Waste Disposal Facilities” comprises the area and associated structures designed to contain solid wastes;

“Toilet Wastes” means all human excreta and associated products, but does not include Greywater;

“Waste” means Waste as defined by Section 1 of the *Waters Act*;

“Waste Disposal Facilities” mean all facilities designated for the disposal of Waste, and includes the Sewage Disposal Facilities, Solid Waste Disposal Facilities, and

Bagged Toilet Wastes Disposal Facilities;

“Waters” means any Waters as defined by Section 1 of the *Waters Act*;

PART B: GENERAL CONDITIONS

1. The Licensee shall file an Annual Report with the Board not later than April 30 of each year which shall contain the following information from the previous calendar year:
 - a. the monthly and annual quantities of each and all Wastes discharged;
 - b. the monthly and annual quantities of solid Waste (e.g. Sludge) removed from the Sewage Disposal Facilities for disposal;
 - c. a summary of the monthly and annual quantities of hazardous Waste stored on site and transported off site;
 - d. any problems, modifications or repairs done to the Waste Disposal Facilities, including all associated structures;
 - e. tabular summaries of all data generated under the “Surveillance Network Program”;
 - f. a list of spills and unauthorized discharges;
 - g. an outline of any spill training and/or other operator training carried out;
 - h. a summary of any closure and reclamation work completed during the year and an outline of any work anticipated for the next year;
 - i. a summary of any studies requested by the Board that relate to Waste disposal, and a brief description of any future studies planned;
 - j. updates and/or revisions to the:
 - approved Spill Contingency Plan;
 - approved Solid Waste Disposal Facility Operation and Maintenance Plan; and
 - Closure and Reclamation Plan;
 - k. results of any inspections of all dams, berms, dykes and control structures;
 - l. results of yearly staff inspections of the solid Waste disposal facility and any corrective actions, as necessary;

- m. The inclusion of all correspondence between the Inspector and the Licensee;
 - n. any other details on Waste disposal requested by the Board by November 1st of the year being reported.
2. The Licensee shall comply with the "Surveillance Network Program" annexed to this Licence, and any amendment to the said "Surveillance Network Program" as may be made from time to time, pursuant to the conditions of this Licence.
 3. The "Surveillance Network Program" and compliance dates specified in the Licence may be modified at the discretion of the Board.
 4. The Licensee shall, within 60 days of the issuance of this Licence, submit to the Board for approval a map or drawing indicating the location of all Surveillance Network Program sampling stations, with associated GPS locations;
 5. The Licensee shall, within 60 days of the issuance of this Licence, post signs in the appropriate areas to inform the public of Waste Disposal Facilities. Additional signage at the Solid Waste Disposal Facility shall clearly indicate where different Waste streams collected by the Hamlet should be deposited. All postings shall be located and maintained to the satisfaction of an Inspector.
 6. Meters, devices or other such methods used for measuring the volumes of Waste discharged shall be installed, operated and maintained by the Licensee to the satisfaction of an Inspector.
 7. The Licensee shall immediately report to the 24 Hour Spill Report Line (867 920-8130) any spills of Waste which are reported to, or observed by, the Licensee within the municipal boundaries, or in the areas of the Waste Disposal Facilities.
 8. The Licensee shall ensure a copy of this Licence is maintained at the municipal office at all times.

PART C: CONDITIONS APPLYING TO WATER USE

Please refer to Gwich'in Land and Water Board Municipal Water Licence G99L3-003.

PART D: CONDITIONS APPLYING TO WASTE DISPOSAL

1. The Licensee shall direct all Pump-out Sewage to the Sewage Disposal Facilities or as otherwise approved by the Board.
2. All effluent discharged from the Sewage Disposal Facilities at "Surveillance Network Program" Station Number 570-3 shall meet the following effluent quality standards:

PARAMETER	MAXIMUM AVERAGE CONCENTRATION
Faecal Coliforms	1 x 10 ⁴ CFU/100mL
Biological Oxygen Demand (BOD ₅)	120 mg/L
Oil and Grease	5 mg/L
Suspended Solids (TSS)	180 mg/L

The Waste discharged shall have a pH between 6 and 9, and no visible sheen of oil and grease.

3. The Licensee shall ensure that the Sewage Disposal Facilities are maintained and operated in such a manner as to prevent structural failure.
4. The Licensee shall maintain the Sewage Disposal Facilities to the satisfaction of an Inspector.
5. All bagged Toilet Wastes (honey bags) shall be disposed of at the Bagged Toilet Waste Disposal Facilities to the satisfaction of an Inspector.
6. The Licensee shall dispose of all solid wastes at the Solid Waste Disposal Facilities or as otherwise approved by the Board.
7. The Licensee shall notify an Inspector when any contaminated soil or snow is deposited at the Solid Waste Disposal Facilities.
8. The Licensee shall contain all contaminated soil or snow in such a manner as to minimize the potential for migration of contaminants into any Waters, to the satisfaction of an Inspector.
9. The Licensee shall segregate and store hazardous Waste in a designated contained temporary storage area, to the satisfaction of the Inspector.
10. The Licensee shall not openly burn solid or liquid Waste, with the exception of paper products, paperboard packaging and untreated wood in accordance with the guideline *Municipal Solid Wastes Suitable for Open Burning*, developed by the GNWT Department of Environment and Natural Resources.
11. The Licensee shall ensure that any unauthorized wastes associated with the municipal undertaking do not enter any Waters.

PART E: CONDITIONS APPLYING TO SPILL CONTINGENCY PLANNING

1. The Licensee shall submit to the Board, within six (6) months of the issuance of the Licence, a Spill Contingency Plan in accordance with the *Guidelines for Spill*

Contingency Planning, April 2007 developed by INAC-Water Resources Division.

2. The Licensee shall implement the plan specified in Part E, Item 1 as and when approved by the Board.
3. The Licensee shall review the Spill Contingency Plan annually, and if necessary, modify the plan to reflect changes in operation(s) and technology. Any updated Spill Contingency Plan shall be submitted to the IWB for approval.
4. If during the period of this Licence, an unauthorized discharge of Waste occurs, or if such a discharge is foreseeable, the Licensee shall:
 - a) Activate the approved Spill Contingency Plan;
 - b) Report all spills immediately via the (24) Hour NWT Spill Report Line (867) 920-8130; and
 - c) Submit to the Board and the Inspector a detailed report on each occurrence not later than thirty (30) days after initially reporting the event.

PART F: CONDITIONS APPLYING TO OPERATION AND MAINTENANCE

1. The Licensee shall, within six (6) months of the issuance of this Licence, submit to the Board for approval an Operations and Maintenance Plan for the Sewage Disposal Facilities and Solid Waste Disposal Facilities that includes, but is not limited to, information and plans related to the following:
 - a. Specifications of the Sewage Disposal Facilities and Solid Waste Disposal Facilities including Engineering drawings and design performance standards;
 - b. Operations, maintenance and monitoring programs for the Sewage Disposal Facilities and Solid Waste Disposal Facilities including maintenance and inspection schedules;
 - c. Sewage sludge management including the disposal of sludge generated at the Sewage Disposal Facilities;
 - d. Contaminated soil and snow segregation and management;
 - e. Hazardous Waste segregation and management;
 - f. Flood response measures including temporary alternate sewage, solid and hazardous Waste disposal practices, locations and mitigation measures; and
 - g. Operator training standards and plans.
2. The Operations and Maintenance Plan shall be consistent with the *Guideline for the Planning, Design, Operations and Maintenance of Modified Solid Waste Sites in the Northwest Territories, April 2003* developed by the Government of the Northwest

Territories (GNWT), Department of Municipal and Community Affairs and the guideline *Developing a Community-based Hazardous Waste Management Plan, August 2011* developed by the GNWT Department of Environment and Natural Resources.

3. The Licensee shall implement the Operations and Maintenance Plan specified in Part F: Item 1 as and when approved by the Board.
4. The Licensee shall review the Operations and Maintenance Plan annually and modify the plan as necessary to reflect changes in design, operation and maintenance or any other changes that may be required by the Board or an Inspector. The proposed modifications shall be submitted to the Board for approval.

PART G: CONDITIONS APPLYING TO MODIFICATIONS

1. The Licensee may, without written approval from the Board, carry out modifications to the Waste Disposal Facilities provided that such modifications are consistent with the terms of this Licence and the following requirements are met:
 - a. the Licensee has notified the Board in writing of such proposed modifications at least sixty (60) days prior to beginning the modifications;
 - b. such modifications do not place the Licensee in contravention of either the Licence or the *Act*;
 - c. the Board has not, during the sixty (60) days following notification of the proposed modifications, informed the Licensee that review of the proposal will require more than sixty (60) days; and
 - d. the Board has not rejected the proposed modifications within the sixty (60) days.
2. Modifications for which all of the conditions referred to in Part G, Item 1 have not been met may be carried out only with written approval from the Board.
3. The Licensee shall provide to the Board site plans of the modifications referred to in Part G, Item 1 within ninety (90) days of completion of the modifications.

PART H: CONDITIONS APPLYING TO CONSTRUCTION

1. Prior to any new construction related to the Waste Disposal Facilities, other than as contemplated in an approved Spill Contingency Plan, the Licensee shall submit to the Board a rationale and design drawings.
2. Construction of designed structures as described in Part H, Item 1, shall be carried out as approved by the Board.

3. As-built drawings of the dams, dykes or structures shall be stamped by an Engineer and submitted to the Board within ninety (90) days of completion of construction.
4. Any fill material used in the construction of any structures as described in Part H, Item 1, must be clean and free of contaminants.

PART I. CONDITIONS APPLYING TO CLOSURE AND RECLAMATION

1. The Licensee shall submit to the Board for approval a Closure and Reclamation Plan at least six (6) months prior to abandoning any Sewage or Solid Waste Disposal Facilities. The Plan shall include, but not be limited to the following:
 - a. contaminated site remediation;
 - b. the potential for groundwater contamination (leachate prevention);
 - c. consideration of altered drainage patterns;
 - d. type and source of cover materials;
 - e. future area use;
 - f. hazardous Waste removal, transportation and disposal;
 - g. an implementation schedule;
 - h. maps delineating all disturbed areas, borrow material locations, and site facilities; and
 - i. a restoration monitoring plan.
2. The Licensee shall implement the Plan specified in Part I, Item 1 as and when approved by the Board.

INUVIALUIT WATER BOARD



Chair

INUVIALUIT WATER BOARD

LICENSEE: The Hamlet of Aklavik
LICENCE NUMBER: N3L3-0570
EFFECTIVE DATE OF LICENCE: December 1, 2014
EFFECTIVE DATE OF SURVEILLANCE NETWORK PROGRAM: December 1, 2014

SURVEILLANCE NETWORK PROGRAM

A. Location of Sampling Stations

<u>Station Number</u>	<u>Description</u>
570-3	Effluent from Clearing Lake Sewage Lagoon at point of outflow

B. Sampling and Analysis Requirements

1. Water at Station 570-3 shall be sampled twice annually, once immediately after break-up and once prior to freeze-up and analysed for the following parameters:
 - BOD₅
 - CBOD₅
 - TSS
 - pH
 - Faecal Coliforms
 - Oil and Grease
2. Water at Station Number 570-3 shall be inspected monthly during periods of flow for the presence of an oily sheen. If a sheen is detected, then a sample shall be collected and analyzed for the presence of oil and grease.
3. More frequent sample collection may be required at the request of an Inspector.
4. All sampling, sample preservation, and analyses shall be conducted in accordance with methods prescribed in the current edition of "Standard Methods for the

Examination of Water and Wastewater" or by such other methods approved by an Analyst.

5. All analyses shall be performed in a laboratory approved by an Analyst.

C. Flow Measurement and Recording Requirements

1. The Licensee shall measure and record in cubic metres the monthly and annual quantities of Sewage discharged into the Clearing Lake Sewage Lagoon.

D. Reports

1. The Licensee shall submit all of the information generated by Part B and Part C of the Surveillance Network Program annually as specified in Part B, Item 1 of the Licence.

INUVIALUIT WATER BOARD



Chair