



NORTHWEST TERRITORIES WATER BOARD

Pursuant to the Northern Inland Waters Act and Regulations the Northwest Territories Water Board, hereinafter referred to as the Board, hereby grants to

HAMLET OF PANGNIRTUNG

(Licensee)

of PANGNIRTUNG, NORTHWEST TERRITORIES
(Mailing address)

hereinafter called the Licensee, the right to alter, divert or otherwise use water subject to the restrictions and conditions contained in the Northern Inland Waters Act and Regulations made thereunder and subject to and in accordance with the conditions specified in this licence:

Licence Number NSLA-1447 (RENEWAL)

Water Management Area NORTHWEST TERRITORIES 05

Location PANGNIRTUNG, NORTHWEST TERRITORIES
TO USE WATER FOR MUNICIPAL PURPOSES
AND DISPOSE OF MUNICIPAL WASTES

Description MUNICIPAL PURPOSES

Quantity of Water Not to be Exceeded 50,000 CUBIC METRES PER YEAR

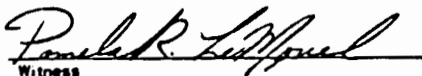
Rate of Use of Water Not to be Exceeded 50,000 CUBIC METRES PER YEAR

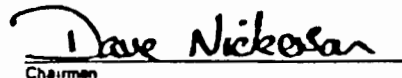
Effective Date of Licence JANUARY 1, 1991

Expiry Date of Licence DECEMBER 31, 2000

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

Northwest Territories Water Board


Witness


Chairman

Approved by



Minister of Indian Affairs
and Northern Development

GENERAL CONDITIONS

PART A

1. Scope

This Licence allows for water use and waste disposal for municipal purposes at the Hamlet of Pangnirtung, Northwest Territories.

2. Definitions

In this Licence: NSL4-1447

"Act" means the Northern Inland Waters Act;

"Regulations" means Regulations proclaimed pursuant to Section 29 of the Northern Inland Waters Act;

"Board" means the Northwest Territories Water Board established under Section 8(1) of the Northern Inland Waters Act;

"Licensee" means the holder of this Licence;

"Controller" means the person appointed to the position of "Controller of Water Rights for the Northwest Territories" by the Northwest Territories Water Board;

"Inspector" means an Inspector designated by the Minister under Section 32(1) of the Northern Inland Waters Act;

"waste" means waste as defined by Section 2(1) of the Northern Inland Waters Act;

"Average Concentration for Fecal Coliforms" means the running geometric mean of any four consecutive analytical results submitted to the Board in accordance with the sampling and analysis requirements specified in the "Surveillance Network Program";

"Average Concentration for All Other Parameters" means the running average of any four consecutive analytical results for all other parameters submitted to the Board in accordance with the sampling and analysis requirements specified in the "Surveillance Network Program";

"Sewage" means all toilet waste, greywater and commercial wastewater; and

"Greywater" means all water waste from showers, baths, sinks, kitchens and washing facilities but does not include toilet waste or commercial wastewater.

3. The Licensee shall file a report pursuant to Section 12(1) of the Act and Section 15(1) of the Regulations not later than March 1st of the year following the calendar year reported which shall contain the following information:

- a. the monthly and annual quantity of water in cubic metres obtained from the water reservoir and the Duval River;
- b. the monthly and annual quantity of wastes in cubic metres discharged to the sewage disposal facilities;
- c. a description of any major maintenance work carried out on the water supply and waste disposal facilities;

- d. a description of any restoration or reclamation work carried out at areas where water supply or waste disposal facilities have been abandoned;
 - e. tabular summaries of all data generated under the "Surveillance Network Program";
 - f. a list of unauthorized discharges; and
 - g. any other details on water use or waste disposal requested by the Board by November 1st of the year being reported.
4. This Licence is issued subject to the conditions contained herein with respect to the taking of water and 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 deposit of such waste may enter any waters. Whenever new Regulations are made or existing Regulations are amended by the Governor in Council under the Northern Inland Waters Act, or other statute 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.
 5. 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.
 6. The "Surveillance Network Program" and compliance dates specified in the Licence may be modified at the discretion of the Board.
 7. The Licensee shall by July 1, 1991 post signs in the area of the water supply facilities and in the areas of the waste disposal facilities to advise the public that these areas are being used for the municipal water supply and for the disposal of municipal wastes. All postings shall be located and maintained to the satisfaction of the Inspector.
 8. The Licensee shall install meters or such devices, or use such methods as approved by the Controller for measuring the volumes of waters used, and wastes disposed of. The meters and measuring devices shall be operated and maintained to the satisfaction of the Inspector.
 9. The Licensee shall by July 1, 1991 ensure that the necessary signs to identify the stations of the "Surveillance Network Program" are posted to the satisfaction of the Inspector.
 10. The Licensee shall immediately report to the 24 Hour Spill Report Line (403-920-8130) any spills of toxic materials which are reported to or observed by the Licensee, within the municipal boundaries or in the area of the waste disposal facilities. A detailed report of each such event shall be submitted to the Controller not later than thirty (30) days after the spill is detected.
 11. Compliance with the terms and conditions of this Licence does not absolve the Licensee from responsibility for compliance with the requirements of other Federal or Territorial legislation.

CONDITIONS APPLYING TO WATER SUPPLY

PART B

1. The Licensee shall obtain all water for municipal purposes from the Duval River to fill the water reservoir as identified in Drawing Nos. 83-4507-A,1,2 entitled "Pangnirtung Water Supply System" and dated March 1985.
2. The annual quantity of water obtained from all sources shall not exceed 50,000 cubic metres.

CONDITIONS APPLYING TO WASTE DISPOSAL

PART C

1. The Licensee shall discharge all pumpout sewage to the existing discharge point located between the incinerator and solid waste disposal site.
2. Greywater produced in existing dwellings may be discharged to the overburden adjacent to the dwelling.
3. The Licensee shall within two (2) years of the issuance of this Licence submit to the Board a report on plans for reducing the public health hazard, resulting from the use of honeybags, and disposal of greywater adjacent to buildings.
4. The Licensee shall by March 31, 1996 submit to the Board for approval, a proposal for the upgrading of the sewage disposal system. The proposal shall include, but not be limited to, plans to meet the following effluent quality standards.

PARAMETER	MAXIMUM AVERAGE CONCENTRATION
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BOD ₅	100 mg/L
Suspended Solids	120 mg/L
Fecal Coliform	1 x 10 ⁶ CFU/dL

The pH shall be above 6 and there shall be no visible sheen of oil and grease.

5. The Licensee shall implement the proposal specified in Part C, Item 4 as and when approved by the Board.
6. The Licensee shall dispose of all solid wastes and honeybags to the existing solid waste disposal site located 1 km east of the Hamlet.

7. The Licensee shall by July 1, 1991 submit for approval by the Board, a sewage and solid waste management manual which includes the operation and maintenance of the existing, and any proposed waste disposal sites. The manual shall include but not be limited to the following:
 - a. location of facilities and proximity to receiving waters;
 - b. inspection of dykes, dams and drainage courses and restoration of erosion;
 - c. removal of floating materials from the sewage discharge pond;
 - d. controlling effluent discharge quality;
 - e. runoff and drainage control;
 - f. segregation of domestic, metal and recyclable waste materials; and
 - g. method and frequency of dump maintenance, burning and alternatives designated to reduce or eliminate burning.
8. The Licensee shall implement the manual as specified in Part C, Item 7 as and when approved by the Board.
9. The Licensee shall immediately report to the 24 Hour Spill Report Line (403-920-8130) should a failure occur in the waste disposal system which results in, or is likely to result in an unauthorized discharge of waste. A detailed report of each such event shall be submitted to the Controller not later than thirty (30) days after the failure was detected.

CONDITIONS APPLYING TO MODIFICATIONS

PART D

1. The Licensee may, without written consent 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) the Board has not, during the sixty (60) days following the notification of the proposed modifications, informed the Licensee that review of the proposal will require more than sixty (60) days; and
 - c) the Board has not rejected the proposed modifications.
2. Modifications for which all of the conditions referred to in Part D, Item 1, have not been met, can be carried out only with the written consent of the Board.

3. The Licensee shall provide as-built plans and drawings of the modifications referred to in the Licence within sixty (60) days of completion of the modification. These plans and drawings shall be submitted to the Controller on material that will reproduce with the use of a standard printer.

NORTHWEST TERRITORIES WATER BOARD

Pamela R. Lettman
Witness

Dave Nickerson
Chairman

NORTHWEST TERRITORIES WATER BOARD

LICENSEE: Hamlet of Pangnirtung
 LICENCE NUMBER: NSL4-1447
 EFFECTIVE DATE OF LICENCE RENEWAL: January 1, 1991
 EFFECTIVE DATE OF SURVEILLANCE
 NETWORK PROGRAM RENEWAL: January 1, 1991

SURVEILLANCE NETWORK PROGRAM

A. Location of Surveillance Stations

<u>Station Number</u>	<u>Description</u>
1447-1	Raw water supply from the Duval River.
1447-2	Raw water supply from the reservoir at the truck fill point.
1447-4	Raw sewage from the pumpout truck.
1447-5	Runoff below the pumpout sewage disposal area and prior to discharge to the Fiord.
1447-6	Runoff below the bagged sewage disposal area and prior to discharge to the Fiord.
1447-7	Runoff below the solid waste disposal area and prior to discharge to the Fiord.
1447-8	Ocean water five metres from point where raw sewage enters the Fiord.

B. Sampling and Analysis Requirements

- Station No. 1447-7 shall be sampled monthly during periods of discharge and analyzed for the following parameters:

pH	Suspended Solids
Sodium	Total Phosphate
Magnesium	Sulphate
Potassium	Calcium
Conductivity	Total Phenols
Oil and Grease	Nitrate and Nitrite
Ammonia Nitrogen	Total Organic Carbon
Total Arsenic	Total Lead
Total Nickel	Total Chromium
Total Cadmium	Total Mercury
Total Zinc	Total Copper
Total Iron	

- All sampling, preservation and analyses shall be conducted in accordance with procedures and methods approved by the Controller.

3. All analysis shall be performed in a laboratory approved by the Controller.

C. Flow Measurement Requirements

1. The monthly quantity of water in cubic metres pumped from Station No. 1447-2, shall be recorded.
2. The monthly quantity of effluent in cubic metres discharged from the sewage disposal facility at Station No. 1447-4 shall be recorded.

D. Reports

1. The Licensee shall submit in the Annual Report, all data and information required in the "Surveillance Network Program".

NORTHWEST TERRITORIES WATER BOARD

Paula R. LeMay
Witness

Dave Nickerson.
Chairman