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Pursuant to the *Mackenzie Valley Resource Management Act* and Regulations, the Wek'èezhii Land and Water Board, hereinafter referred to as the Board, hereby grants to:

Tłı̨chǫ Community Government of Gamètì
(Licensee)

of **P.O. Box 1, Gamètì, NT X0E 1R0**
(Mailing Address)

Hereinafter called the Licensee, the right to alter, divert or otherwise use water subject to the restrictions and conditions contained in the Waters Act and Regulations made there under and subject to and in accordance with the conditions specified in this Licence.

Licence Number:	W2018L3-0001
Licence Type:	B
Water Management Area:	NORTHWEST TERRITORIES 01
Location:	GAMÈTÌ, NT
Purpose:	WATER USE AND WASTE DISPOSAL
Description:	FOR MUNICIPAL PURPOSES
Quantity of water <u>not to be exceeded</u> :	SEE PART C, CONDITION 3
Effective Date of Licence:	DECEMBER 21, 2018
Expiry Date of Licence:	DECEMBER 21, 2028

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

Wek'èezhii Land and Water Board:

Witness

Chair

Part A: Scope and Definitions

1. Scope

- a) This Licence entitles the Community Government of Gamètì to use water and dispose of waste for municipal undertakings at Gamètì, Northwest Territories.
- b) 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 deposits of such Waste may enter any Waters. Whenever new Regulations are made or existing Regulations are amended 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.
- c) Compliance with the terms and conditions of this Licence does not excuse the Licensee from its obligation to comply with the requirements of all applicable Federal, Territorial, Tlicho and Municipal Legislation.



2. Definitions

“Act” means the *Waters Act*, S.G.N.W.T. 2014, C.18.

“Analyst” means an Analyst designated by the Minister under subsection 65(1) of the Act.

“Bagged Toilet Waste Disposal Facilities” comprises the area and associated structures designed to contain bagged toilet wastes (honey bags).

“Board” means the Wek’èezhii Land and Water Board established under Section 57.1(1) of the Mackenzie Valley Resource Management Act.

“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 subsection 65(1) of the Act.

“Licensee” means the holder of this Licence.

“Maximum Average Concentration” means the running average of any four consecutive analytical results submitted to the Board in accordance with the sampling and analysis requirements specified in the Surveillance Network Program.

“Minister” the Minister of Indian Affairs and Northern Development Canada or the Minister of the Government of the Northwest Territories – Department of Lands, as the case may be.

“Modification” means an alteration to a physical work that introduces a new structure or eliminates an existing structure and does not alter the purpose or function of the work, but does not include an expansion.

“Professional Engineer” means a person who is registered with the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists in accordance with the Engineering and Geoscientists in accordance with the *Engineering and Geoscience Professions Act*, as a Professional Engineer.

“Receiving Environment” means the natural environment, that, directly or indirectly, receives any deposit of waste (as defined in the Act) from a project.

“Regulations” means Regulations promulgated pursuant to section 63 of the Act.

“Sewage” means all Toilet Wastes and 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.

“Spill Contingency Plan” means a document, developed in accordance with Indian Affairs and Northern Development Canada’s April 2007, or subsequent editions, Guidelines for Spill Contingency Planning, that describes the set of procedures to be implemented to minimize the effects of a spill.

“Surveillance Network Program” means a monitoring program established to define environmental sampling and analysis requirements, to collect water quality data, and to assess discharge quality, licence compliance, and potential for impacts to the environment.



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

“Waste” means any garbage, debris, chemical, or Toxic Material to be used, stored, disposed of, or handled on land, and also as defined in section 51 of the 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” mean any “waters” as defined by section 1 of the Act.

“Water Supply Facilities” means all the facilities designed to collect, treat and supply water for municipal purposes.

“Water Use” means the use of Waters as defined by section 1 of the Act.



Part B: General Conditions

1. The Licensee shall ensure a copy of this Licence is maintained at the municipal office at all times.
2. Prior to March 31 of the year following the calendar year reported, the Licensee shall file an **Annual Report** with the Board. The Annual Report shall contain the information set out in Schedule 1.
3. Meters, devices or other such methods used for measuring the volumes of water used and waste discharged must be installed, operated, and maintained by the Licensee to the satisfaction of an Inspector.
4. The Licensee shall comply with the Schedules, which are annexed to, and forms part of this Licence, and any amendments to the Schedules as may be made by the Board.
5. The Licensee shall comply with the Surveillance Network Program, which is annexed to and forms part of this Licence, and any amendment to the Surveillance Network Program as may be made by the Board.
6. The Licensee shall operate in accordance with any Plans and programs approved pursuant to the conditions of this Licence and with any revision to such Plans, as may be made pursuant to the conditions of this Licence and as approved by the Board. If any Plan is not approved by the Board, the Licensee shall revise the Plan according to the Board's direction and re-submit it to the Board for approval.
7. The Schedules, Surveillance Network Program, and compliance dates specified in the Licence may be modified at the discretion of the Board.
8. Within sixty (60) days of the issuance of this Licence, the Licensee shall post the necessary signs, where possible, to identify the stations of the Surveillance Network Program. All signs shall be located and maintained to the satisfaction of an Inspector.
9. Within sixty (60) days of issuance of this Licence, the Licensee shall post signs in the appropriate areas to inform the public of Water Supply and Waste Disposal Facilities. All signs shall be located and maintained to the satisfaction of an Inspector.
10. All references to policies, guidelines, codes of practice, statues, regulations or other authorities shall be read as a reference to the most recent versions, unless otherwise denoted.



Part C: Conditions Applying to Water Use

1. The Licensee shall obtain all water using the Water Supply Facilities or as otherwise approved by the Board.
2. If authorized in writing by an Inspector, the Licensee may obtain water from an alternate water supply for use on an emergency basis, when it is not possible to obtain water from the source stated in part C, Condition 1.
3. The annual quantity of water used for all purposes shall not exceed 12,000 cubic metres.
4. The water intake hose used on the water pumps shall be equipped with a screen with a mesh size that is satisfactory to an Inspector and sufficient to ensure no entrainment of fish.



Part D: Conditions Applying to Waste Disposal

1. The Licensee shall ensure that any unauthorized Wastes associated with the municipal undertaking do not enter any Waters.
2. The Licensee shall immediately notify an Inspector and the Board of any SNP result that is above the criteria value set out in Part D, Conditions 4 and 5.

Sewage

3. The Licensee shall direct Pump-Out sewage to the Sewage Disposal Facilities, or as otherwise approved by the Board.
4. All Sewage effluent discharged from the Sewage Disposal Facilities at Surveillance Network Program Station Number 003-2 shall meet the following effluent quality standards:

PARAMETER	MAXIMUM AVERAGE CONCENTRATION
Suspended Solids	240 mg/L
Oil and Grease	5 mg/L
CBOD	235 mg/L
Faecal Coliforms	1 x 10 ⁶ CFU/100 mL

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

5. All Sewage effluent discharged from the Sewage Disposal Facilities at Surveillance Network Program Station Number 003-3 shall meet the following effluent quality standards:

PARAMETER	MAXIMUM AVERAGE CONCENTRATION
Suspended Solids	25 mg/L
Oil and Grease	5 mg/L
CBOD	25 mg/L
Faecal Coliforms	1 x 10 ⁶ CFU/100 mL

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

6. All bagged toilet wastes (honey bags) shall be disposed of in a manner satisfactory to an Inspector at the Bagged Toilet Waste Disposal Facilities.
7. The Licensee shall maintain the Sewage Disposal Facilities to the satisfaction of an Inspector.

Solid Waste

8. The Licensee shall dispose of all solid Wastes at the Solid Waste Disposal Facilities in accordance with the approved Operation and Maintenance Plan for the Solid Waste Facilities.
9. The Licensee shall not burn solid or liquid wastes, with the exception of paper products, paperboard packaging and untreated wood Waste, which may be burned at the Solid Waste Disposal Facility.



10. The Licensee shall maintain, to the satisfaction of an Inspector, fencing at the Solid Waste Disposal Facility that is capable of capturing windswept Waste, deterring wildlife, and preventing unauthorized persons from entering the site.

Water

11. The Licensee shall not discharge Waste from the Water Supply Facilities to the Receiving Environment, unless authorized in writing by an Inspector.



Part E: Conditions Applying to Construction

1. Ninety (90) days prior to construction of any dams, dykes or structures intended to contain, withhold, divert or retain Water or Wastes other than as contemplated in the **Spill Contingency Plan**, the Licensee shall submit to the Board, design drawings stamped by a Professional Engineer.
2. Construction of dams, dykes, or structures identified in Part E, Condition 1 shall be carried out as approved by the Board.
3. As-built drawings of the dams, dykes or structures identified in Part E, Condition 1 shall be stamped by a Professional Engineer and submitted to the Board within ninety (90) days of completion of the facility.
4. Any fill materials used in the construction of any facilities must be from an approved source, and be clean and free of contaminants.



Part F: Conditions Applying to Modifications

1. The Licensee may, without written approval from the Board, carry out Modifications to the Water Supply and 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, the Act, or Federal, Territorial, or Municipal Legislation;
 - 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;
 - d) An Inspector has authorized the proposed Modifications and provided a letter of notification to the Board; and
 - e) the Board has not rejected the proposed Modifications.
2. Modifications for which all of the conditions referred to in Part F, Condition 1 have not been met may be carried out only with written approval from the Board.
3. Within ninety (90) days of completion of the Modifications referred to in Part F, Condition 1, the Licensee shall provide as-built drawings stamped by a Professional Engineer to the Board.



Part G: Conditions Applying to Contingency Planning

1. The Licensee shall annually review the Spill Contingency Plan, and shall submit updates to the Plan to the Board for approval at the following times:
 - a) when necessary to reflect changes in operation or technology; and
 - b) upon the request of an Inspector or the Board.
2. If during the period of this Licence, a spill or unauthorized discharge of Waste occurs, or if such a discharge is foreseeable, the Licensee shall:
 - a) implement the **Spill Contingency Plan**;
 - b) report the incident immediately via the (24) Hour NWT Spill Report Line (867) 920-8130 in accordance with the instructions contained in the Spill Report Form NWT 1752/0593 or subsequent editions;
 - c) report each spill and unauthorized discharge to an Inspector within (24) hours; and
 - d) within thirty (30) days of an unauthorized discharge or an incident reported under Part G, Condition 2(b), the Licensee shall submit a detailed report to the Board and an Inspector. The report shall include descriptions of root causes, response actions, and any changes to procedures to prevent similar occurrences in the future.



Part H: Conditions Applying to Operation and Maintenance

1. The Licensee shall annually review the **Operation and Maintenance Plans** for the Sewage and Solid Waste Disposal Facilities **and Water Supply Facility**, and shall submit updates to the Plans to the Board for approval at the following times:
 - a) when necessary to reflect changes in operation or technology; and
 - b) upon the request of an Inspector or the Board.
2. Within ninety (90) days of the effective date of this Licence, the Licensee shall submit Version 3.0 of the Operations and Maintenance Plan for the Sewage Disposal Facilities. The Plans shall contain the information set out in Schedule 2.
3. The Licensee shall implement the Plans specified in Part H, Condition 1 as and when approved by the Board.



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 the closure of any of the Sewage or Solid Waste Disposal Facilities. The Closure and Reclamation Plan shall contain the information set out in Schedule 3.
2. The Licensee shall revise the Closure and Reclamation Plan referred to in part I, condition 1 if not approved. The revised Plan shall be submitted to the Board for approval within six (6) months of receiving notification of the Board's decision.
3. Notwithstanding the time schedule referred to in the Closure and Reclamation Plan, the Licensee shall endeavor to carry out progressive reclamation of areas, which are abandoned prior to the closure of operations.
4. The Licensee shall implement the Plan specified in Part I, Item 1 as and when approved by the Board.

WEK'ÈEZHÌI LAND AND WATER BOARD



Witness



Chair



Schedule 1

Annual Report

The Annual Report referred to in Part B, Condition 2, shall include, but not be limited to, the following information:

- a) the monthly and annual quantities in cubic metres of fresh Water obtained from all sources;
- b) the monthly and annual quantities in cubic metres of each and all Waste discharged;
- c) the annual quantities in cubic metres of sludge in the sewage lagoon;
- d) a summary of Modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures;
- e) tabular summaries of all data generated under the Surveillance Network Program;
- f) a list of unauthorized discharges;
- g) a summary of sludge management activities, if any;
- h) an outline of any spill training and communications exercises carried out;
- i) a summary of any closure and reclamation work completed during the year and an outline of any work anticipated for the next year;
- j) a summary of any studies requested by the Board that relate to Waste disposal, Water use or reclamation, and a brief description of any future studies planned;
- k) the monthly and annual quantities of solid Waste removed from the Sewage Disposal Facilities for disposal;
- l) a summary of any updates or revisions to the Closure and Reclamation Plan/s, Management Plans, and Operation and Maintenance Plans; and
- m) any other details on Water use or Waste disposal requested by the Board by November 1st of the year being reported.



Schedule 2

Operation and Maintenance Plans

1. The Operation and Maintenance Plans referred to in Part H, Condition 1, shall include, but not be limited to, the following:

- a) frequency of inspection of dams, dykes and drainage courses;
- b) removal of floating materials and sludge from the Sewage Disposal Facilities;
- c) management of sludge;
- d) specify the guidelines that will be used to evaluate sludge quality and suitability for cover material;
- e) controlling effluent discharge quality;
- f) runoff and drainage control within and around the facility, and restoration of erosion;
- g) treatment of contaminated drainage;
- h) prevention of windblown debris;
- i) managing hazardous waste;
- j) segregation of domestic, metal and recyclable waste materials;
- k) method and frequency of site maintenance, including burning where permitted;
- l) alternatives designed to reduce burning; and
- m) discussion on the need for monitoring the quality of ground and surface water.



Schedule 3

Closure and Reclamation Plan

1. With regard to the facility being closed, the Closure and Reclamation Plan referred to in Part I, Condition 1, shall include, but not be limited to, the following:
 - a) a description of existing conditions (including photos);
 - b) a description of monitoring activities conducted prior to closure and a summary of results obtained;
 - c) contaminated site remediation;
 - d) the potential for groundwater contamination and runoff water (leachate prevention);
 - e) consideration of altered drainage patterns;
 - f) type and source of cover materials;
 - g) future area use;
 - h) hazardous wastes removal, transportation and disposal;
 - i) a post-closure monitoring plan;
 - j) an implementation schedule; and
 - k) maps delineating all disturbed areas, borrow material locations, and site facilities.



SURVEILLANCE NETWORK PROGRAM

Annexed to Water Licence W2018L3-0001

The Surveillance Network Program (SNP) is effective on the effective date of the Licence.

A. Location of Surveillance Stations

1. The Licensee shall include all of the data and information required by the Surveillance Network Program in the Annual Report as specified in Part B, Condition 3, of the Licence. The Licence shall also provide SNP data monthly during open water season, and at times, if requested by an Inspector or the Board.

B. Sampling and Analysis Requirements

1. All sampling, sample preservation, and analysis 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.
2. All analyses shall be performed in a laboratory approved by an Analyst.
3. More frequent sampling collection may be required at the request of an Inspector.

C. Surveillance Network Program Stations

SNP Station	Location	Frequency	Parameters	Rationale
SNP 003-1	Raw Water from Rae Lake	Daily	Cubic metres	To determine the quantity of raw water
SNP 003-2	Sewage effluent at the outflow of the proposed sewage lagoon to the wetland	Monthly from June to October	Total Mercury, Total Suspended Solids, BOD ₅ , CBOD, pH, Faecal Coliforms, Ammonia – Nitrogen, Oil and Grease	To monitor effluent quality following lagoon (primary treatment) and prior to entering the wetland (secondary treatment)
SNP 003-3	Rae Lake at outflow of the wetland	Monthly from June to October	Total Mercury, Total Suspended Solids, BOD ₅ , CBOD, pH, Faecal Coliforms, Ammonia – Nitrogen, Oil and Grease	To monitor effluent quality at the outflow of the wetland prior to entering Rae Lake
SNP 003-4	Runoff from domestic solid waste disposal site	Monthly during periods of open water	pH, Total Mercury, Total Metals, ¹ Total Suspended Solids ¹ Total Metals shall include, at a minimum, the following parameters: Arsenic, Aluminum, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Molybdenum, Nickel, Selenium, Strontium, Uranium, zinc	To monitor runoff quality from the Solid Waste Facility

