



Gwich'in Land and Water Board

Box 2018 Inuvik NT X0E 0T0

PH 867 777 7860 FX 867 777 7870

WATER LICENCE

Pursuant to the *Mackenzie Valley Resource Management Act*, and the *Northwest Territories Waters Act and Regulations*, the Gwich'in Land and Water Board (hereinafter referred to as the Board) hereby grants to:

HAMLET OF FORT MCPHERSON

(hereinafter referred to as the Licensee)

P.O. Box 57 Fort McPherson, NT X0E 0J0

(Mailing Address)

the right to alter, divert or otherwise use water and deposit waste subject to the restrictions and conditions contained in the *Mackenzie Valley Resource Management Act*, the *Northwest Territories Waters Act and Regulations* made thereunder, and subject to and in accordance with the conditions specified in this licence.

Licence Number: **G03L3-001**

Licence Type: **"B"**

Location: **Fort McPherson, Northwest Territories
Latitude 67°27' N, Longitude 134°53' W**

Water Management Area **NORTHWEST TERRITORIES 03**

Purpose: **Use of Water and Deposit of Waste for Municipal Purposes**

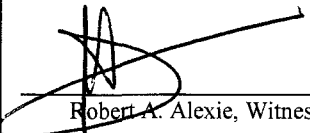
Quantity of Water Not to Exceed: **60,000 Cubic Meters Per Year**

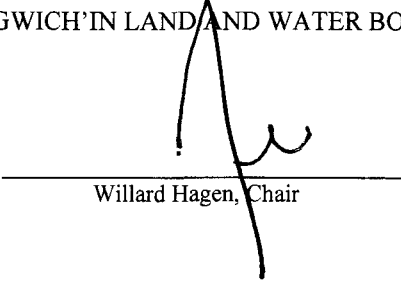
Effective Date of Licence: **September 1, 2007**

Expiry Date of Licence: **August 31, 2013**

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

Signed the 30th day of August, 2007 on behalf of the GWICH'IN LAND AND WATER BOARD


Robert A. Alexie, Witness


Willard Hagen, Chair



Gwich'in Land and Water Board

Box 2018 Inuvik NT X0E 0T0

PH 867 777 7960 FX 867 777 7970

August 30, 2007

File: G03L3-001

Hamlet of Fort McPherson
Attn: Ms Linda Folks
P.O. Box
Fort McPherson, NT

Re: Renewal of Municipal Water Licence (Type B) G03L3-001

Ms. Folks,

Attached is a duplicate of Licence No. G03L3-001 granted to the Hamlet of Fort McPherson by the Gwich'in Land and Water Board (GLWB) in accordance with the Northwest Territories Waters Act. The original Licence has been filed in the Registry, and a copy placed in the Public Registry, at the GLWB office in Inuvik, NT.

Also attached are general procedures for the administration of licenses in the Northwest Territories. I request that you review these and address any questions to the Board's office.

Please be advised that this letter with attached procedures, all inspection reports, and correspondence related thereto are part of the Public Water Register, and are intended to keep all interested parties informed of the manner in which the Licence requirements are being met. All Water Register material will be considered when the Licence comes up for renewal or amendment.

Fisheries and Oceans Canada would be glad to provide advice regarding the terms of reference requested in Part B, condition 10. Please contact Amanda Joynt, Habitat Biologist at the Inuvik office at 867-777-7515 or at joynta@DFO-MPO.gc.ca.

Further, we would like to advise you that a Canada-wide Strategy for the Management of Municipal Waste Water Effluents is currently being developed, under the aegis of the Canadian Council of Ministers of the Environment (CCME). The Canada-wide strategy will more clearly define regulatory requirements related to the release or discharge of wastewater into surface waters. As part of the federal government's implementation of the CCME Canada-wide Strategy, it is Environment Canada's stated intention to develop a regulation under the Fisheries Act. Environment Canada's goal is to ensure that effluents from wastewater systems are treated before being discharged to the receiving environment so that effluents do not pose unacceptable risks to ecosystem and human health, or to fisheries resources. Implementation of the Strategy will be delayed (by approximately five years) for Canada's North, as more research is required to determine appropriate Performance Standards for Northern conditions. For further information you may contact Catherine Mallett at malletc@inac.gc.ca or Anne Wilson at Anne.Wilson@ec.gc.ca. Please note that the anticipated regulation under the Fisheries Act may eventually impact discharge criteria for this water licence.

Flemming College is conducting research on wetland systems in the North, which includes pilot studies at locations in Nunavut and possibly the Northwest Territories. Indian and Northern Affairs Canada thought this work may be of interest to you, and asked that we provide the following contact information: Brent Wootton

bwootton@flemingc.on.ca

Reviewers of the application asked the Board to make the Hamlet aware of the following:

- GNWT Health and Social Services asks that the Hamlet review the 1993 document “Municipal Solid Wastes Suitable for Open Burning” produced by Environment and Natural Resources. *(copy included)*
- The Gwich’in Social and Cultural Institute requests to be informed if major changes to the licensed activities are implemented, and recommends that traditional names of geographic features be included in correspondence and on maps.
- Environment Canada requests to be informed of any changes to the activities permitted in this water licence,
- Fisheries and Oceans Canada requests to be informed of any changes that could result in adverse effects on fish or fish habitat, and that you review the “Freshwater Intake End-of-Pipe Guideline. *(copy included)*

•
The full cooperation of the Hamlet of Fort McPherson is anticipated.

Sincerely

Willard Hagen, Chair

Copied: Conrad Baetz, District Manager – INAC North Mackenzie District
Ken Johnson, Senior Planner and Engineer – EarthTech Canada

GENERAL PROCEDURES FOR THE ADMINISTRATION OF LICENSES
ISSUED UNDER THE NORTHWEST TERRITORIES WATERS ACT
IN THE NORTHWEST TERRITORIES

1. At the time of issuance, a copy of the Licence is placed on the Water Register in the office of the Gwich'in Land And Water Board in Inuvik, and is available to the public
2. To enforce the terms and conditions of the Licence, the Minister of Indian and Northern Affairs Canada has appointed Inspectors in accordance with Section 35 (1) of the Northwest Territories Waters Act. The inspectors coordinate their activities with the officials of the Gwich'in Land and Water Board Staff.
3. To keep the Water Board and members of the Public informed of the Licensee's conformity to the Licence condition, the Inspectors prepare reports, which detail observations on how each item in 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 on the public Water Register, as are any responses received from the Licensee. pertaining to the inspection reports. It is therefore of prime importance that you react in all areas of concern regarding all inspection reports so that these concerns may be clarified.
4. If the renewal of Licence No. G03L3-001 is contemplated; it is the responsibility of the Licensee to apply to the Gwich'in Land and Water Board for renewal. The past performance of the Licensee, new documentation and information, points raised during any 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 the Licensee has not been issued a new Licence, then water and waste disposal must cease, or the Licensee, would be in contravention of the Northwest Territories Water Act. It is suggested that an application for renewal of this Licence be made at least three months in advance of the Licence expiry date.

If for some reason, Licence No. G03L3-001 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 Board with ample time to go through the amendment process.

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

BOARD Robert A. Alexie, Executive Director
 Gwich'in Land and Water Board
 P.O. Box 2018
 INUUVIK, NT X0E 0T0
 Phone: (867) 777-7960 Fax: (867) 777-7970

INSPECTOR Jan Davies, Water Resources Inspector
 Indian and Northern Affairs Canada - Operations Division
 North Mackenzie District – Inuvik District Office
 P.O. Box 2100
 INUUVIK, NT X0E 0T0
 Phone: (867) 777-3662 Fax: (867) 777-2090

ANALYST Analyst
 Taiga Environmental Laboratory
 Indian and Northern Affairs Canada - Northern Affairs Program
 P.O. Box 1500
 4601 – 52nd Avenue
 YELLOWKNIFE, NT X1A 2R3
 Phone: (867) 669-2788 Fax: (867) 669-2718

PART A: SCOPE AND DEFINITIONS

1. Scope

- a) This Licence entitles the Hamlet of Fort McPherson to use water and dispose of waste for municipal undertakings at Fort McPherson, latitude 67°27' N and longitude 134°53' W, 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 by the Governor in Council under the *Northwest Territories 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 absolve the Licensee from responsibility for compliance with the requirements of all applicable Federal, Territorial and Municipal legislation.

2. Definitions

In this Licence: **G03L3-001**

“**Act**” means the *Northwest Territories Waters Act*;

“**Analyst**” means an Analyst designated by the Minister under Section 35(1) of the *Northwest Territories Waters Act*;

“**Average Concentration**” for **Biochemical Oxygen Demand & Suspended Solids** means the arithmetic mean of four consecutive analytical results, or if less than four analytical results collected during a batch decant, the arithmetic mean of the analytical results collected, and as submitted to the Board in accordance with the sampling and analysis requirements specified in the “Surveillance Network Program”;

“**Average Concentration**” for **Faecal Coliforms** means the 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”;

“**Bagged Toilet Waste Disposal Facilities**” comprises the area and associated structures designed to contain bagged toilet wastes (honey bags) as described in Article 4.3.7, and depicted in Figure 7, of the “Fort McPherson Water License Background Report”, June 2007, Earth Tech Canada Inc.

“**Board**” means the Gwich'in Land and Water Board established under Part 3 of the *Mackenzie Valley Resource Management Act*;

“**Commercial Waste Water**” means water and associated waste generated by the operation of a commercial enterprise, but does not include toilet water or greywater;

“**Freeboard**” means the vertical distance between water line and the lowest elevation of the effective water containment crest on a dam or dyke's upstream slope;

“Geotechnical Engineer” means a civil or geotechnical engineer familiar with and experienced in geotechnical practices in arctic conditions, registered or licensed to practice in the Northwest Territories.

“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 35(1) of the *Northwest Territories Waters Act*;

“Licensee” means the holder of this Licence:

“Minister” means the Minister of Indian Affairs and Northern Development;

“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.

“Pumpout 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 33 of the *Northwest Territories Waters Act*;

“Sewage” means all toilet wastes and greywater;

“Sewage Disposal Facilities” comprises the area and engineered structures designed to contain sewage as described in Section 4.2, and depicted in Figures 4, 5 and 6, of the “Fort McPherson Water License Background Report”, June 2007, Earth Tech Canada Inc.

“Solid Waste Disposal Facilities” comprises the area and associated structures designed to contain solid wastes as described in Section 4.3, and depicted in Figure 7, of the “Fort McPherson Water License Background Report”, June 2007, Earth Tech Canada Inc.

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

“Waste” means waste as defined by Section 2 of the *Northwest Territories Waters Act*;

“Waste Disposal Facilities” means all facilities designated for the disposal of waste, and includes the Sewage Disposal Facilities, Solid Waste Disposal Facilities, and Bagged Toilet Wastes Disposal Facilities;

“Water Supply Facilities” comprises the area and associated intake infrastructure as described in Section 4.1, and shown in Figure 3 (schematic), of the “Fort McPherson Water License Background Report”, June 2007, Earth Tech Canada Inc.

“Waters” means any Waters as defined by Section 2 of the *Northwest Territories Waters Act*.

PART B: GENERAL CONDITIONS

1. The Licensee shall file an Annual Report with the Board, with a copy to the Inspector, not later than March 31st of the year following the calendar year reported which shall contain 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 of sewage solids removed from the sewage facilities for disposal;
 - 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", as approved by the Board;
 - f) a list of unauthorized discharges;
 - g) an outline of any spill training and communications exercises carried out;
 - h) a summary of any abandonment and restoration 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, water use or reclamation, and a brief description of any future studies planned;
 - j) any other details on water use or waste disposal requested by the Board by November 1st of the year being reported;
 - k) updates or revisions to the approved Operation and Maintenance Plans;
 - l) a map indicating all SNP locations
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. Meters, devices or other such methods used for measuring the volumes of water used and waste discharged shall be installed, operated and maintained by the Licensee to the satisfaction of an Inspector.
5. The Licensee shall, within sixty (60) days of the issuance of this Licence, post the necessary signs, where possible, to identify the stations of the "Surveillance Network Program". All postings shall be located and maintained to the satisfaction of an Inspector.

6. The Licensee shall, within sixty (60) days of issuance of this Licence, post signs in the appropriate areas to inform the public of Water Supply and Waste Disposal Facilities. All postings shall be located and maintained 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 Water Supply or Waste Disposal Facilities.
8. The Licensee shall ensure a copy of this Licence is maintained at the municipal office at all times.
9. The Licensee shall submit to the Board for approval, no later than May 30, 2008, an action plan outlining what steps will be taken to consistently maintain the specified freeboard at the trucked sewage disposal facilities. A copy of the action plan shall be forwarded to the Inspector.
10. The Licensee shall prepare, and submit to the Board and Fisheries and Oceans Canada for approval, no later than March 28, 2008, terms of reference for a bio-physical assessment of the environment receiving the sewage effluent discharges, namely Sewage Lake and the lake and wetlands downstream from the trucked sewage retention lagoon. A copy of the terms of reference shall be forwarded to the Inspector.
11. The Licensee shall submit to the Board for approval, no later than October 30, 2009, a detailed plan outlining what steps will be taken to improve sewage treatment efficiency (trucked sewage system). The plan shall include, but not be limited to, measures to reduce Ammonia Nitrogen in the waste water effluent stream to meet the applicable water quality guideline (CCME - Canadian Water Quality Guideline for the Protection of Aquatic Life). A copy of the plan shall be forwarded to the Inspector.

PART C: CONDITIONS APPLYING TO WATER USE

1. The Licensee shall obtain all fresh water from Deep Water Lake using the Water Supply Facilities or as otherwise approved by the Board.
2. The Licensee may obtain water from Water Lake for use on an emergency basis upon approval by the Board.
3. The annual quantity of water used for all purposes shall not exceed 60,000 cubic metres.
4. The water intake hose, used on the water pumps, shall be equipped with a screen, in accordance with the most current edition of the Freshwater Intake End-of-Pipe Screen Guideline by Fisheries and Oceans Canada.

PART D: CONDITIONS APPLYING TO WASTE DISPOSAL

1. The Licensee shall direct all piped and pumpout Sewage to the Sewage Disposal Facilities or as otherwise approved by the Board.

2. All Sewage effluent discharged from the Sewage Disposal Facilities at "Surveillance Network Program" Station Number 1696-2 shall meet the following effluent quality standards:

PARAMETER	MAXIMUM AVERAGE CONCENTRATION
Suspended Solids	150 mg/L
BOD ₅	100 mg/L
Faecal Coliforms	2 x 10 ⁵ CFU/100mL

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

3. All Sewage effluent discharged from the Sewage Disposal Facilities at "Surveillance Network Program" Station Number 1696-3 shall meet the following effluent quality standards:

PARAMETER	MAXIMUM AVERAGE CONCENTRATION
Suspended Solids	35 mg/L
BOD ₅	30 mg/L
Faecal Coliforms	1 x 10 ³ CFU/100mL

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

4. A Freeboard limit of one (1.0) metre, or as recommended by a qualified geotechnical engineer and as approved by the Board, shall be maintained at all dykes and earthfill structures associated with the Sewage Disposal Facilities.

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 advise an Inspector at least ten (10) days prior to initiating the decant of the sewage lagoon.

7. The sewage lagoon shall be maintained and operated in such a manner as to prevent structural failure.

8. The Licensee shall maintain the Sewage Disposal Facilities to the satisfaction of an Inspector.

9. The Licensee shall dispose of all solid wastes at the Solid Waste Disposal Facilities or as otherwise approved by the Board.

PART E: 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, with a copy to the Inspector, 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 this 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.
2. Modifications for which all of the conditions referred to in Part E, 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, as well as the Inspector, with site plans of the modifications referred to in this Licence within ninety (90) days of completion of the modifications.

PART F: CONDITIONS APPLYING TO CONTINGENCY PLANNING

1. If during the period of this Licence, an unauthorized discharge of waste occurs, or if such a discharge is foreseeable, the Licensee shall:
 - a) advise an Inspector immediately via the 24 Hour NWT Spill Report Line (867) 920-8130; and
 - b) submit to an Inspector, and to the Board, a detailed report on each occurrence not later than thirty (30) days after initially reporting the event.
2. If during the period of this Licence, the prescribed freeboard limit (as prescribed in Part D, Item 4) cannot be maintained, the Licensee shall:
 - a) advise an Inspector immediately
 - b) collect a sample and get the sample analyzed for parameters as prescribed in the attached SNP
 - c) submit to the Inspector for approval a written request to perform an emergency decant
3. The Licensee shall maintain drip trays to be utilized when refueling equipment.

PART G: CONDITIONS APPLYING TO ABANDONMENT AND RESTORATION

1. The Licensee shall submit to the Board for approval an Abandonment and Restoration Plan at least six (6) months prior to abandoning any sewage or solid waste facilities. The Plan shall include, but not be limited to:
 - a) contaminated site remediation;
 - b) leachate prevention;
 - c) an implementation schedule
 - d) maps delineating all disturbed areas, borrow material locations, and site facilities;
 - e) consideration of altered drainage patterns;
 - f) type and source of cover materials;
 - g) future area use; and
 - h) hazardous wastes.

2. The Licensee shall implement the Plan specified in Part G, Item 1 as and when approved by the Board.

PART H: CONDITIONS APPLYING TO CONSTRUCTION

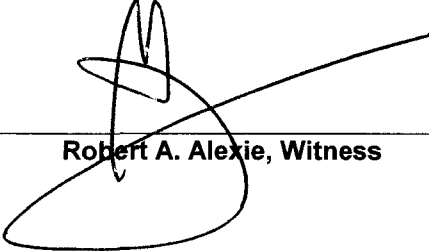
1. Construction of designed structures shall be carried out as approved by the Board.

PART I: CONDITIONS APPLYING TO OPERATION AND MAINTENANCE

1. The Licensee shall, within six (6) months of the issuance of this Licence, submit to the Board, with a copy to the Inspector, for approval, a revised plan for the Operation and Maintenance of the Sewage and Solid Waste Disposal Facilities. The plan shall include but not be limited to the following:
 - a) frequency of inspection of dams, dykes and drainage courses;
 - b) removal of floating materials from the Sewage Disposal Facilities;
 - c) controlling effluent discharge quality;
 - d) runoff and drainage control within and around the facility, and restoration of erosion;
 - e) treatment of contaminated drainage;
 - f) prevention of windblown debris;
 - g) managing hazardous waste;

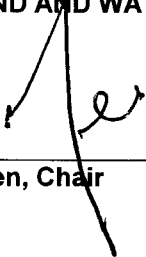
- g) managing hazardous waste;
- h) segregation of domestic, metal and recyclable waste materials;
- i) method and frequency of site maintenance, including burning where permitted; and
- j) alternatives designed to reduce burning.
- k) removal and disposal of sewage solids
- l) spill contingency plan

2. The Licensee shall implement the plan specified in Part I, Item 1 as and when approved by the Board.



Robert A. Alexie, Witness

GWICH'IN LAND AND WATER BOARD



Willard Hagen, Chair



Gwich'in Land and Water Board

Box 2018 Inuvik NT X0E 0T0

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August 30, 2007

File: G03L3-001

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Sincerely

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Willard Hagen, Chair

Copied: Conrad Baetz, District Manager – INAC North Mackenzie District
Ken Johnson, Senior Planner and Engineer – EarthTech Canada

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 Phone: (867) 777-7960 Fax: (867) 777-7970

INSPECTOR Jan Davies, Water Resources Inspector
 Indian and Northern Affairs Canada - Operations Division
 North Mackenzie District – Inuvik District Office
 P.O. Box 2100
 INUUVIK, NT X0E 0T0
 Phone: (867) 777-3662 Fax: (867) 777-2090

ANALYST Analyst
 Taiga Environmental Laboratory
 Indian and Northern Affairs Canada - Northern Affairs Program
 P.O. Box 1500
 4601 – 52nd Avenue
 YELLOWKNIFE, NT X1A 2R3
 Phone: (867) 669-2788 Fax: (867) 669-2718