

**SAHTU LAND AND WATER BOARD
Type B Water Licence S19L3-001
Great Bear Lake Lodge Ltd.
Domestic Use – Outfitting Camp**

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Part A: Scope and Definitions

1. Scope

- a) This Licence entitles the Licensee to use Water and dispose of Waste for municipal undertakings at Great Bear Lake Lodge, located near Dease Arm of Great Bear Lake, 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 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.
- c) Compliance with the terms and conditions of this Licence does not relieve the Licensee from responsibility for compliance with the requirements of all applicable federal, territorial, Tlicho, Deline, or municipal legislation.

2. Definitions

Act - the *Waters Act*.

Analyst - an Analyst designated by the Minister under subsection 65(1) of the Act.

Board - the Sahtu Land and Water Board established under Part 3 of the *Mackenzie Valley Resource Management Act*.

Closure – the permanent dismantlement of one or more components of the Project with the intent of making the components incapable of its intended use. This includes the removal of associated equipment and structures used in the construction or maintenance of the Project.

Construction – any activities undertaken during any phase of the Project to construct or build any structure, facilities, or components of, or associated with, the development of the Project.

Discharge - the direct or indirect release of any Waters or Waste to the Receiving Environment.

Engagement Plan - a document, developed in accordance with the MVLWB's *Engagement and Consultation Policy* and the *Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits*, that clearly describes how, when and which engagement activities will occur with an affected party during the life of the Project.

Gravel Filtration Field – the area that septic holding tanks are emptied to prior to discharging to the Receiving Environment.

Grey Water – all liquid Wastes from showers, baths, sinks, kitchens, and domestic washing facilities but does not include Toilet Wastes.



Inspector - an Inspector designated by the Minister under subsection 65(1) of the Act.

Licensee - the holder of this Licence.

Minister - a duly appointed member of the Executive Council who is responsible for the Act or the department responsible for administering that Act.

Modification – in respect of a structure, means a change, other than an expansion, that does not alter the purpose or function of a structure.

Project – the Great Bear Lake Lodge and associated facilities undertaking as described in Part A, condition 1.

Receiving Environment - the natural environment that receives any deposit of Discharge of Waste or Water, including runoff, from the Project.

RECLAIM – the current version of a computer-based spreadsheet program developed by Brodie Consulting Ltd., used to estimate security reclamation costs.

Reclamation – the activities which facilitate the return of areas affected by the Project to viable and, wherever practicable, self-sustaining ecosystems that are compatible with a healthy environment, human activities, and the surrounding environment.

Regulations - Regulations proclaimed pursuant to Section 63 of the Act.

Runoff – the overland flow of water that occurs when excess precipitation, meltwater, or other sources is not absorbed by the earth's surface, and instead drains downslope towards a surface water body.

Secondary Containment – a containment system that prevents the spread of hazardous liquids to the surrounding environment in the event of a leak, or failure, of a primary storage tank.

Sewage - all Toilet Wastes and Greywater

Sewage Disposal Facilities - the area and associated infrastructure designated to contain Sewage.

Solid Waste Disposal Facilities – the area and associated infrastructure designed to contain solid Wastes.

Spill Contingency Plan - a document, developed in accordance with Aboriginal Affairs and Northern Development Canada's *Guidelines for Spill Contingency Planning*, that describes the set of procedures to be implemented to minimize the effects of a spill.

Surveillance Network Program (SNP) - a monitoring program established to define environmental sampling and analysis requirements, as detailed in Annex A of this Licence, to collect data, and assess compliance and potential for impacts to the Receiving Environment.

Toilet Wastes - all human excreta and associated products, but does not include greywater.



Traditional Knowledge - the cumulative collective body of knowledge, experience and values built up by a group of people through generations of living in close contact with nature. It builds upon the historic experiences of a people, and adapts to social, economic, environmental, spiritual and political change.

Unauthorized Discharge - the release or Discharge of any Waters or Wastes not authorized under this Licence.

Waste – any substance defined as Waste by section 1 of the Act.

Waste Management Plan (WMP) – a document, developed in accordance with the MVLWB's *Guidelines for Developing a Waste Management Plan*, that describes the methods of Waste management from Waste generation to final disposal.

Watercourse - a natural Watercourse, body of Water or Water supply, whether usually containing Water or not, and includes groundwater, springs, swamps, and gulches, as defined in the Northwest Territories Waters Regulations.

Water Licence Inspector - an Inspector designated by the Minister under section 9 of the *Waters Act*.

Waters - any Waters as defined under section 1 of the Act.

Water Supply Facilities - the area and associated intake and distribution infrastructure designed to supply Water.

Water Use - a use of Water as defined in section 1 of the Act.



Part B: General Conditions

1. The Licensee shall ensure a copy of this Licence is maintained on site at all times.
2. The Licensee shall take every reasonable precaution to protect the environment.
3. In conducting its activities under this Licence, the Licensee shall make every reasonable effort to consider and incorporate any scientific information and Traditional Knowledge that is made available to the Licensee.
4. All references to policies, guidelines, codes of practice, statutes, regulations, or other authorities shall be read as a reference to the most recent versions, unless otherwise denoted.
5. The Licensee shall ensure all information submitted to the Board:
 - a) Is in a form acceptable to the Board;
 - b) Is in accordance with the MVLWB's *Document Submission Standards*;
 - c) Includes a conformity table, which identifies where the pertinent requirements of this Licence are addressed; and
 - d) Includes a revision history table and summary of the revisions made.
6. The Licensee shall ensure management plans are submitted to the Board in a format consistent with the MVLWB's *Standard Outline for Management Plans*.
7. The Licensee shall comply with all plans and programs approved pursuant to the conditions of this Licence, including such revisions made as per the conditions of this Licence, and as approved by the Board.
8. The Licensee may propose revisions at any time by submitting a revised plan or program to the Board for approval. All revisions shall be submitted to the Board, for approval, at least 90 days, unless otherwise specified, prior to implementing any proposed updates or changes in the approved plans and programs.
9. If any submission is not approved by the Board, the Licensee shall revise the submission according to the Board's direction and resubmit for approval.
10. If any date for any submission falls on a weekend or holiday, the Licensee may submit the item on the following business day.
11. The Licensee shall comply with the Schedules, which are annexed to and form part of this Licence, and any changes to the Schedules as may be made by the Board.
12. The Licensee shall comply with the **Surveillance Network Program**, which is annexed to and forms part of this Licence, and any changes to the Surveillance Network Program as may be made by the Board.
13. The Schedules, the Surveillance Network Program, and any compliance dates specified in this Licence may be changed at the discretion of the Board.



14. The Licensee shall install, operate, and maintain meters, devices, or other such methods used for measuring the volumes of Water used and Waste discharged to the satisfaction of an Inspector.
15. Prior to establishing, activating, or relocating any Surveillance Network Program station(s), the Licensee shall post sign(s) to identify the Surveillance Network Program station(s). The sign(s) shall be located and maintained to the satisfaction of an Inspector.
16. Beginning March 31, 2020, and no later than every March 31 thereafter, the Licensee shall submit an **Annual Water Licence Report** to the Board. The Report shall be in accordance with Schedule 1.
17. The Licensee shall adhere to the **Engagement Plan**, once approved, and shall annually review the approved plan, and make any necessary revisions to reflect changes in operations, or as directed by the Board. Revisions to the plan shall be submitted to the Board for approval prior to implementation.

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Part C: Conditions Applying to Reclamation Security Deposits

1. Prior to the use of Water for domestic undertakings or the disposal of Waste, the Licensee shall post and maintain a Reclamation security deposit with the Minister, in accordance with Schedule 2, condition 1.

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Part D: Conditions Applying to Water Use

1. The Licensee shall obtain all Water from Great Bear Lake using the **Water Supply Facilities**, or as otherwise approved by the Board.
2. The total annual quantity of fresh Water withdrawn shall be less than 1000 m³ determined on an annual basis from the date of Water Licence issuance.
3. The Licensee shall comply with the most recent version of the *Department of Fisheries and Oceans Protocol for Water Withdrawal in the Northwest Territories*.
4. The Licensee shall maintain on-site, to the satisfaction of the Water Licence Inspector, a detailed water uptake log(s) that records in litres the total daily volumes of water withdrawn from Great Bear Lake. The log(s) will be provided to the Water Licence Inspector or the Board upon request.

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Part E: Conditions Applying to Construction

1. The Licensee shall ensure that all structures intended to contain, withhold, divert, or retain Water or Wastes are designed, constructed, and maintained to prevent escape of Waste to the Receiving Environment.

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Part F: Conditions Applying to Modifications

1. The Licensee may carry out a Modification to an existing or planned structure, without written approval from the Board, provided the proposed Modification is not an expansion, does not alter the purpose or function of the structure, and the following are consistent with the terms of this Licence and the following requirements are met prior to beginning the Modification:
 - a) The Licensee shall provide written notification to the Board and an Inspector a minimum of 45 days prior to beginning the Modification;
 - b) An Inspector has provided written notification to the Board authorizing the proposed Modification;
 - c) The Board has not informed the Licensee that additional information is required; and
 - d) The Board has not informed the Licensee that additional time is required to conduct a public review.
2. The Licensee may only carry out a Modification that does not meet Part F, condition 1 with written approval from the Board.
3. Within 90 days of the completion of the Modification referred to in Part E, condition 1, the Licensee shall submit to the Board an **As-Built Report**, stamped and signed by a Professional Engineer, which shall include final as-built drawings and specifications of the modified structure.



Part G: Conditions Applying to Spill Contingency Planning

1. The Licensee shall ensure that Unauthorized Discharges associated with the Project do not enter any Waters.
2. The Licensee shall, in consideration of the remote location of the development, have spill response equipment, trained personnel and procedures available on-site that are capable of responding appropriately to spills on land and to spills into any Watercourse or Water body.
3. The Licensee shall adhere to the **Spill Contingency Plan**, once approved, and shall annually review the approved plan to make necessary revisions to reflect changes in operations, technology, chemicals, or fuels, or as directed by the Board. The proposed updates shall be submitted to the Board for approval and shall include a summary of revisions in the introductory section of the plan.
4. The Licensee shall ensure that all personnel are aware of, and understand, the Spill Contingency Plan.
5. If, during the period of this Licence, a spill or Unauthorized Discharge occurs, or is foreseeable, the Licensee shall:
 - a) Implement the approved Spill Contingency Plan referred to in Part G, condition 3;
 - b) Immediately report it using the NU-NT Spill Report Form by one of the following methods:
 - Telephone: (867) 920-8130
 - Fax: (867) 873-6924
 - E-mail: spills@gov.nt.ca
 - Online: Spill Reporting and Tracking Database
 - c) Within 24 hours, notify the Board and the Water Licence Inspector; and
 - d) Within 30 days of initially reporting the incident, submit a detailed report, including descriptions of causes, response actions, and any changes to procedures to prevent similar occurrences in the future, to the Board and the Water Licence Inspector. Updates shall be provided to the Board and an Inspector in writing as changes occur.
6. The Licensee shall ensure that adequate spill prevention infrastructure and spill response equipment is in place prior to commencement of the Project.
7. The Licensee shall restore all areas affected by spills and Unauthorized Discharges to the satisfaction of an Inspector.



Part H: Conditions Applying to Water and Waste Management

1. The Licensee shall manage Water and Waste with the objectives of minimizing the impacts of the Project on the quantity and quality of Water in the Receiving Environment through the use of appropriate mitigation measures, monitoring, and follow-up action.
2. The Licensee shall adhere to the **Waste Management Plan**, once approved, and shall annually review the approved plan to make any necessary revisions to reflect changes in operations, technology, chemicals, or fuels, or as directed by the Board. The proposed updates shall be submitted to the Board for approval and shall include a summary of revisions in the introductory section of the plan.
3. The Licensee shall ensure that all Grey Water produced by the undertaking are deposited in the Sewage Disposal Facilities as described in the approved Waste Management Plan.
4. The Licensee shall ensure that all solid Wastes produced by the undertaking are deposited in the Solid Waste Disposal Facilities as described in the approved Waste Management Plan.
5. The Licensee shall maintain the Solid Waste Disposal Facilities as described in the approved Waste Management Plan.
6. The Licensee shall ensure that any Waste burned consists only of items that meet the requirements of Environment Canada's *Technical Document for Batch Waste Incineration*.



Part I: Conditions Applying to Closure and Reclamation

1. The Licensee shall submit to the Board for approval a **Closure and Reclamation Plan**. The Plan shall include, but not be limited to, the following:
 - a) The Water intake facilities;
 - b) The Water treatment and Waste disposal sites;
 - c) The petroleum and chemical storage areas;
 - d) Any site affected by spills;
 - e) Consideration of altered drainage patterns;
 - f) Hazardous Wastes;
 - g) An implementation schedule;
 - h) Maps delineating all disturbed areas, borrow material locations, and site facilities;
 - i) Future area use;
 - j) The potential for groundwater contamination; and
 - k) Any other facilities included in the Great Bear Lake Lodge Water Licence.

2. The Licensee shall carry out progressive Reclamation of areas as soon as is reasonably practicable.

Signed on behalf of the Sahtu Land and Water Board

Larry Wallace, Chair

Witness



Schedule 1
Attached to Water Licence S19L3-001
Great Bear Lake Lodge Ltd. – Domestic Use – Outfitting Camp

Part B: General Conditions – Annual Water Licence Report

1. The **Annual Water Licence Report** referred to in Part B, condition 16, shall include, but not be limited to, the following information:
 - a) A summary of engagement activities conducted in accordance with the approved **Engagement Plan**, in Part B, condition 17 of this Licence, undertaken during the previous calendar year and shall include a brief description of activities planned for the forthcoming year;
 - b) A summary of Construction activities conducted in accordance with Part E of this Licence, undertaken during the previous year calendar year;
 - c) A summary of Modifications and/or major maintenance work carried out on the Water Supply Facilities, Sewage Disposal Facilities, and Solid Waste Disposal Facilities, including all associated structures;
 - d) A summary of activities conducted in accordance with the approved **Waste Management Plan**, required in Part H, condition 2 of this Licence, undertaken during the previous calendar year;
 - e) The monthly and annual quantities in cubic metres of each and all Waste discharged;
 - f) The monthly and annual quantities of water usage from the issuance/anniversary date of the Water Licence along with the calendar year's usage.
 - g) Tabular summaries of all data generated under the **Surveillance Network Program**, including:
 - i. Rationale for SNP stations where samples were not collected;
 - ii. Exact coordinates for each established SNP station;
 - iii. A tabular summary of all data collected under the SNP;
 - iv. Information regarding the calibration and status of the meters and devices referred to in Part B, condition 14 of this Licence; and
 - v. A tabular summary of cumulative water use.
 - h) A summary of activities conducted in accordance with the approved **Spill Contingency Plan**, required in Part G, condition 3 of this Licence, undertaken during the previous calendar year, including:
 - i. A list and description for all Unauthorized Discharges that occurred during the previous calendar year, including the date, NWT spill number, volume, location, summary of the circumstances and follow-up actions taken, and status (i.e. open or closed), in accordance with the reporting requirements in Part G, condition 5 of this Licence; and
 - ii. An outline of any spill training and communications exercises carried out during the previous calendar year.
 - i) A summary of activities conducted in accordance with the **Closure and Reclamation Plan**, required in Part I of this Licence, completed during the year, a summary of updates or changes made, and an outline of any work anticipated for the next year;
 - j) A summary of actions taken to address concerns, non-conformances, or deficiencies in any reports filed by an Inspector; and
 - k) Any other details on Water use or Waste disposal requested by the Board by November 1st of the year being reported.



Schedule 2
Attached to Water Licence S19L3-001
Great Bear Lake Lodge Ltd. – Domestic Use – Outfitting Camp

Part C: Reclamation Security Deposit

1. Pursuant to Part C, condition 1, and subsection 35(1) of the Act and section 11 of the Regulations, a Reclamation security deposit of \$20,000 is required by this Licence.

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Annex A: Surveillance Network Program
Annexed to Water Licence S19L3-001, Part B, item 12
Great Bear Lake Lodge Ltd. – Domestic Use – Outfitting Camp

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- Part B: Sampling and Analysis Requirements
- Part C: Site Descriptions and Monitoring Requirements

Part A: Reporting Requirements

1. The effective date of this Surveillance Network Program (SNP) is May 29, 2019.
2. The Licensee shall submit to the Board, SNP results as per Schedule 1, condition 1(g) of this Licence (Annual Water Licence Report).
3. The Licensee shall also provide SNP data at other times, if requested by an Inspector or the Board.

Part B: Sampling and Analysis Requirements

4. All sampling, sample preservation, and analyses shall be conducted in accordance with methods prescribed in the current edition of American Public Health Association's (APHA) *Standard Methods for the Examination of Water and Wastewater* at the time of analysis, or by other such methods approved by an Analyst.
5. All analyses shall be performed in a laboratory accredited by the Canadian Association for Laboratory Accreditation (CALA) for the specific analyses to be performed or as approved by an Analyst.

Part C: Site Descriptions and Monitoring Requirements

6. The location of sampling stations is subject to approval of an Inspector. Signs shall be posted as per Part B, condition 15 of this Licence.
7. More frequent sample collection may be required at the request of an Inspector.
8. The sampling station locations and monitoring requirements are as follows:



SNP station 17-1

Description	The monthly and annual quantities of Water pumped from SNP station number 17- 1 for domestic purposes shall be measured and recorded in cubic metres.
Location	Water intake at Great Bear Lake
Sampling Frequency	Monthly during intake
Sampling Parameters	Volume of Water in m ³
Rationale	To monitor the monthly and annual quantity of Water withdrawn for use.
Status	Active

SNP station 17-2

Description	Monthly monitoring of Receiving Environment, downstream of Sewage Disposal Facilities (Gravel Filtration Field).
Location	The shore of Great Bear Lake at the closest point downstream of the Sewage Disposal Facilities (Gravel Filtration Field).
Sampling Frequency	Twice yearly, at the end of July and the end of August
Sampling Parameters	CBOD ₅ , Total Suspended Solids, Nutrients, Faecal Coliforms
Rationale	To monitor the quality of Water in the Receiving Environment
Status	Active

Signed on behalf of the Sahtu Land and Water Board

Larry Wallace, Chair

Witness

