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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

File No: 3BM-YRB2631

July 6, 2026

Darrin Nichol
Director
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RE: NWB Renewal Water Licence No: 3BM-YRB2631

Dear Mr. Nichol and Mr. Alamgir:

Please find attached Licence No: **3BM-YRB2631** issued to the Government of Nunavut – Transportation and Infrastructure Nunavut (GN-TIN or Licensee) by the Nunavut Water Board (NWB or Board), pursuant to its authority under Article 13 of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada (Nunavut Agreement)* and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSTRA)*. The terms and conditions of the attached Licence related to the use of Water and the deposit of Waste are an integral part of this approval.

If the Licensee contemplates the renewal of this Licence, it is the responsibility of the Licensee to apply to the NWB for its renewal. The past performance of the Licensee, new documentation and information, and issues raised during a public hearing, if the NWB is required to hold one, will be used to determine the terms and conditions of the Licence renewal. Note that if the Licence expires before the NWB issues a new one, then Water use and Waste disposal must cease, or the Licensee may be in contravention of the *Nunavut Agreement* and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (Act)*. However, the expiry or cancellation of a licence does not relieve the holder from any obligations imposed by the licence. The NWB recommends that an application for the renewal of this Licence be filed at least **three (3) months** prior to the Licence expiry date.

If the Licensee contemplates or requires an amendment to this Licence, the NWB may decide, in the public's interest, to hold a public hearing. The Licensee should submit applications for amendment as soon as possible to give the NWB sufficient time to go through the amendment process. The process and timing may vary depending on the scope of the amendment; however, a minimum of **sixty (60) days** is required from time of acceptance by the NWB. It is the responsibility of the Licensee to ensure that all application materials have been received and are acknowledged by the Manager of Licensing.

It should be noted that in accordance with Section 75(1)(a) of the *Nunavut Planning and Project Assessment Act (NuPPAA)*, the Board is not allowed to issue a licence or authorization for any project proposal that has not been submitted to the Nunavut Planning Commission (NPC) in accordance with Section 76 of *NuPPAA*.

The NWB strongly recommends that the Licensee consult the submissions¹ received from Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) and Fisheries and Oceans Canada (DFO), and comply with their requirements as recommended. Submissions from parties are attached for your consideration.

Sincerely,

Lootie Toomasie
Nunavut Water Board
Chair

LT/rqd/aj

Enclosure: Licence No: **3BM-YRB2631**
Comments - CIRNAC, DFO

Cc: Distribution List - Qikiqtani

¹ Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC), March 6, 2026 and May 6, 2026; and Fisheries and Oceans Canada (DFO), March 6, 2026.

TABLE OF CONTENTS

I. BACKGROUND	1
II. FILE HISTORY	1
III. PROCEDURAL HISTORY	1
IV. SUMMARY OF COMMENTS	2
V. GENERAL CONSIDERATIONS	6
<i>Term of the Licence</i>	<i>6</i>
<i>Annual Reporting</i>	<i>6</i>
<i>Water Use</i>	<i>7</i>
<i>Waste Management</i>	<i>7</i>
<i>Management Plans</i>	<i>8</i>
<i>Monitoring</i>	<i>8</i>
PART A: SCOPE, DEFINITIONS AND ENFORCEMENT	14
1. Scope	14
2. Definitions	14
3. Enforcement	16
PART B: GENERAL CONDITIONS	17
PART C: CONDITIONS APPLYING TO WATER USE	19
PART D: CONDITIONS APPLYING TO WASTE DISPOSAL	19
PART E: CONDITIONS APPLYING TO MODIFICATIONS AND CONSTRUCTION ...	20
PART F: CONDITIONS APPLYING TO OPERATIONS AND MAINTENANCE	21
PART G: CONDITIONS APPLYING TO CLOSURE AND RECLAMATION	22
PART H: CONDITIONS APPLYING TO THE MONITORING PROGRAM	23

I. BACKGROUND

The Renewal Application is by the Government of Nunavut – Transportation and Infrastructure Nunavut (GN-TIN or the Applicant or Licensee) formerly the Department of Economic Development and Transportation (EDT), for a term of five (5) years of the type B Water Licence No: 3BM-YRB2126 to allow for the continued operation of a Sewage Disposal Facility (Project) located within the municipal boundaries of the Hamlet of Resolute Bay in the Qikiqtani Region, Nunavut. The Licensee notes in the Application that the scope of activities currently authorized under Water Licence No: 3BM-YRB2126 will remain unchanged.

II. FILE HISTORY

Historically, all or some aspects of the works, activities, and facilities associated with the undertaking have been licensed by the NWB and the Northwest Territories Water Board (NWTWB), as outlined in Table 1.

Table 1. Project Licensing History

Licence No.	Date Issued	Comments
N4L3-1561	May 1, 1996	Initial Licence issued by the NWTWB to the Government of the Northwest Territories – Arctic Airports Division to allow for the use of 50,000 cubic metres of Water annually and the deposit of Waste for a municipal undertaking
NWB3YRB0308/ 3BM-YRB0308	November 30, 2003	Renewal Licence issued by the NWB to the Government of Nunavut – Department of Community Government and Transportation to allow for the use of 600 cubic metres of Water annually and the deposit of Waste in support of a Municipal undertaking
3BM-YRB1621	December 16, 2016	Renewal-Amendment Licence issued to the GN-EDT: potable Water use and solid Waste deposit activities excluded from the scope of the Licence and moved to separate Licences issued to the Hamlet of Resolute Bay; 1 cubic metre of Water is allowed to be used per year for sampling purposes.
3BM-YRB2126	December 22, 2021	Renewal Licence issued to GN-EDT; 1 cubic metre of Water allowed to be used per year for sampling purposes.

III. PROCEDURAL HISTORY

On January 23, 2026, the GN-TIN submitted to the NWB an Application requesting to renew Water Licence No: 3BM-YRB2126. The following documents were included within the Application package:

- Representative Authorization for SBL Services Inc.
- Water Licence Renewal Application
- Technical Summary in English and Inuktitut
- NPC Conformity Determination
- Cover Letter

- SCP Resolute Bay Airport Sewage Lagoon Revised (October 2025)
- QA/QC Plan Resolute Bay Airport
- Grise Fiord OM Manual Sewage Lagoon (October 2025)
- Annual Report for 2025 and Lab Results in 2025
- 2025 Plan for Compliance

On February 6, 2026, the NWB concluded that the Application generally met the requirements of section 48(1) of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* (NWNSRTA or Act) and forwarded notice of the Application to interested parties. Parties were invited to make representations to the NWB by March 6, 2026. Submissions were received from Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) and Fisheries and Oceans Canada (DFO). DFO advised they have no comments and recommendations at this time. On April 15, 2026, the Applicant provided response to comments and submitted revised plans.

On April 30, 2026, CIRNAC was requested to confirm whether the response addressed their concerns and recommendations. On May 6, 2026, CIRNAC provided a Technical Review Memorandum regarding the status of their comments and recommendations. A summary of recommendations and Applicant's responses are summarized in the section below: Summary of Comments. The NWB has placed in its Public Registry copies of the Application and all comments received from Interveners and can be accessed through the following link:

[NWB Renewal Water Licence No: 3BM-YRB2631](#)

IV. SUMMARY OF COMMENTS

Following is a summary of recommendations submitted by CIRNAC. The Licensee is advised to refer to the original submissions for detailed discussion on comments and recommendations and to comply with the requirements.

Over-capacity of the Resolute Bay Airport Sewage Lagoon – Provide information on potential interim measures, including the feasibility of sludge removal, that have been evaluated to support continued lagoon operation until the new wastewater treatment plant becomes operational.

Applicant Response – The sludge will be kept on the bed of the lagoon. The sewage will be pumped out from the lagoon cell to the land once reaches within the free board (1m) level to maintain the structural integrity of the Lagoon. The estimated storage capacity is about 6000 m³. The effluent will be naturally treated in the vegetated sandy wetland about 3 km wide. Decanting the lagoon once or even twice in a year will be ensured to increase capacity as per the Licence conditions.

CIRNAC acknowledged that the lagoon capacity will be managed through periodic decantation until the wastewater treatment plant becomes operational however expressed concerns about exceedances of licensed parameters and highlighted the importance of fully implementing and maintaining monitoring and reporting requirements under the Licence to demonstrate that lagoon operations and decanting activities are adequately controlled and protective of the receiving environment during the interim period. Additionally, a Spill Report to be submitted if a

decantation of the sewage lagoon lead to an exceedance in parameters of the Water Licence, and to continue to advise the Inspector at least ten days before decanting.

The Licensee noted that there will be de-sludging operations during the 2027/28 period to increase the storage capacity and that they plan to implement annual monitoring of both lagoon sludge quality and sewage effluent quality through laboratory testing. The analytical results will be documented and presented in the 2026 Annual Report. The lagoon decanting procedure will be carried out in close consultation with the CIRNAC Inspector to ensure compliance with regulatory requirements and spill reporting procedures will be initiated immediately if any monitored parameter exceeds the allowable regulatory limits.

Water Source Identification and YRB-1(a) Definition – Provide updated management plans to clarify the intended water source and to correct the inconsistencies listed above. Recommendation of using YRB-1(a) consistently across all documents, instead of YRB-1, to avoid confusion with YRB-1(b).

Applicant Response – YRB-1(a) is the raw water sampling point at Char Lake, not Strip Lake, and requested correction in the Licence.

Inconsistent Identification and Location of Monitoring Stations – Provide GPS coordinates and a single, consistent set of definitions for stations YRB-1(b), YRB-2, YRB-3, and YRB-4, and ensure that all monitoring-related documents reference these stations in a uniform manner consistent with the Water Licence and to ensure that all relevant parameters are being tested for at each station.

Applicant Response – The GPS coordinates are shown in the lab results and samples are attempted to collect from all the possible stations where sampling signs are established. The new source is Char Lake and raw water sampling point YRB-1(a) is located at Char Lake.

CIRNAC identified errors remaining in the documentation re-submitted and recommended that the applicant ensure that all stations are correctly identified in all documentation. The Licensee provided clarification and submitted revised plans.

Inconsistent Sampling Frequency – Clarify the current sampling frequencies for each monitoring station and consolidate these into a single, consistent schedule that aligns with the requirements of the Water Licence part H section 1, to ensure that all monitoring and testing stations are in compliance, and is reflected consistently across all documents.

Applicant Response – Due to lab location, weather sensitivity and flight cancellations and delays, sometimes it is difficult to send the samples to the lab on schedule and as a result the samples get spoiled. A better sampling program is expected to be established from this summer and the frequency of sampling as described in the Water Licence will be followed.

Missing Effluent Quality Lab Results and Exceedances at Station YRB-3 – Outline any measures that have been implemented or are planned in response to the effluent exceedances observed at YRB-3, including filling a spill report to the 24-Hour Spill Line and incomplete

parameter reporting for YRB-3 and YRB-4. Any sampling and monitoring data at sampling stations YRB-1(a), YRB-1(b), YRB-2, YRB-3 and YRB-4 not included in the present application or the 2024 and 2023 annual reports be provided and outline whether any steps that have been taken to improve the consistency of annual sampling and reporting.

Applicant Response – The Licensee will be very careful to follow the spill reporting requirements as and when required during the new Licence life time.

CIRNAC suggested to come up with a plan to ensure compliance with the Licence and noted they look forward to seeing improvements in the sampling requirements. The Licensee confirmed they will make every reasonable effort to operate and maintain the lagoon system to a high standard and to ensure compliance with all conditions of the Water Licence.

Missing results of the Sludge Monitoring Plan – Confirm whether the Sludge Monitoring Plan has been conducted as outlined in the Operation and Maintenance Manual and clarify whether a sludge study has been initiated or is planned. Any sludge analysis results be provided in this Application and the Annual Report.

Applicant Response – The sludge quality has not been analyzed yet however, the Licensee is planning to conduct the testing along with the sewage and submit results in the 2026 Annual Report. The sludge will be tested once annually during each summer.

Inconsistent Wastewater Volume Estimates and Missing Waste Quantities – Clarify which wastewater figures represent current operating conditions and report that data in cubic meters in a consistent manner across documentation. Provide precise quantity of sewage and sludge produced to ensure compliance with the current Water Licence.

Applicant Response – The sewage truck has no meter to measure the discharge volume whereas the treated water volume is recorded during distribution to each consumer. The sewage volume is considered equal volume to the volume of distributed water treated by trucks. In 2025, total water consumption/delivered volume was 6,427,533 litres or 6,427.533 cubic meters. The sewage discharged into the lagoon in 2025 is also considered the same, there is no method to measure the sludge volume. The research shows that one Cubic meter of Municipal sewage typically produces about 0.2 to 0.3 kg of dry sludge, though the total wet sludge is over 99% water with raw sludge usually 2 to 5% solids, comprising organic matter, microorganisms, and inorganic materials. The wastewater volume depends on the water consumption volume and varies from the year to year depending on the population. We collect the monthly water volume recorded by the local contractor ATCO, which is roughly 6,500 cubic meters. This procedure will be continued.

CIRNAC restated their concern and recommended that the Applicant implement an approach to measure independently the quantity of sewage waste discharged. The Licensee noted they are currently evaluating the installation of a flow meter on the raw sewage discharge line to accurately measure the daily volume of raw wastewater discharged into the lagoon. In addition, a second flow meter is being considered for installation on the effluent discharge line during lagoon decanting operations to measure the volume of treated wastewater effluent pumped from

the lagoon into the wetland. During this interim period, they will provide estimated quantities for raw wastewater volume, sludge volume, and treated effluent volume in the 2026 Annual Report, based on best practices outlined in the CSA standard for the design and operation of northern lagoons, CSA Group CSA W203.

Lack of Defined Actions for Spills in Proximity to Water Bodies – Provide explicit, actionable procedures for responding to spills in proximity to waterbodies and ensure that the referenced sections correspond to existing sections of within the documentation.

Applicant Response – Specific steps were outlined, and a revised Spill Contingency Plan was submitted.

Lack of Spill Prevention Measures – Outline any spill-prevention practices currently used on site and incorporate them into the Spill Contingency Plan to better describe how spill risks are proactively managed.

Applicant Response – The Licensee has been operating this lagoon for long and is expecting to abandon it as soon as the new Waste Water Treatment Plant (WWTP) is built and in operation and hence a large-scale SCP has not been planned for. However, the Licensee is alert and considers reducing spill risks in any unforeseen circumstances until this system is in operation.

CIRNAC recommended that the next iteration of the Spill Contingency Plan should outline any spill-prevention practices to better describe how spill risks are proactively managed. Licensee confirmed a spill report will be submitted to the Spill Hotline immediately upon identification or suspicion of any spill incident. In the event of a sewage spill, frequent sampling and monitoring will be carried out to assess and track the wastewater quality and potential environmental impacts, and spills will be managed in accordance with the procedures outlined in the Spill Contingency Plan (SCP).

Availability of the Material Safety Data Sheets – Confirm whether MSDS are kept with the printed Spill Contingency Plan for use during spill response.

Applicant Response – The lagoon is an open operation in remote area and MSDS cannot be kept there. The third-party operator ATCO has a huge operation in the town and the Licensee might get help from either of these two sources whatever they need for MSDS.

Absence of Closure and Reclamation Plan – Provide an update on the status and anticipated completion timeline of the Closure and Reclamation Plan for the existing sewage lagoon.

Applicant Response – A different Division of TIN is handling the WWTP. The closure of this facility is linked to the construction of the new WWTP and is expected within 4 years. The Closure and Reclamation Plan will be submitted to the NWB a year before abandoning the lagoon.

Non-Compliance Identified by Applicant for the Disposal of Hazardous Waste, Waste Oil and Non-combustible Waste – Provide clarification on the current measures in place for

handling hazardous waste, waste oil, and non-combustible waste, as well as any anticipated timelines for implementing the planned backhauling described in the Plan for Compliance.

Applicant Response – The Licensee will follow the standard northern practice and procedure of disposal of hazardous wastes to the south.

CIRNAC in their follow-up submission restated their recommendation that the Applicant provide clarification on the current measures in place for handling hazardous waste, waste oil, and noncombustible waste, as well as any anticipated timelines for implementing the planned backhauling described in the Plan for Compliance. The Licensee confirmed that they have established a plan to collect and store hazardous waste, waste oil, and non-combustible waste materials in empty fuel drums which will be properly sealed, stored safely, and transported to southern disposal facilities using the annual summer sealift service, as required.

Inconsistencies About the Number of Lagoon Cells – The Applicant to confirm the size and composition of the lagoon and ensure that it is indicated in a consistent manner across all documentation.

Applicant Response – It is a two-cell lagoon with additional small ditch for overflow control if, when and as required. This holding Pond built before Nunavut and NWB was first licensed though exfiltrated in nature and not an engineered facility without as-built drawings. The Operations and Maintenance, Spill Contingency, and QA/QC plans are updated to satisfy CIRNAC comments.

V. GENERAL CONSIDERATIONS

The Renewal Water Licence No: 3BM-YRB2631 will be effective on December 22, 2026 to allow the Licensee for the continuation of activities approved under the previous Licence No: 3BM-YRB2126. Since the Project activities have remained the same as with the existing or previous Licence, all terms and condition in the Renewal Licence will remain the same.

Term of the Licence

In accordance with s. 45 of the *NWNSRTA*, the NWB may issue a licence for a term not exceeding twenty-five (25) years. In determining an appropriate term for a licence, the Board generally takes into consideration several factors including Interveners' comments, the Licensee's compliance history, as well as the rationale provided in the Application.

The Licensee requested in its Application, a five (5) year term for this Licence. The Interveners in their submissions did not comment on the requested term for the Licence. The Board has approved the Licence for a **five (5) years term** considering the nature of the Undertaking and to allow for continued operations till the commissioning of the planned Waste Water Treatment Plant.

Annual Reporting

Under Part B, Item 1 of the Licence, the Licensee is required to submit Annual Reports for the purpose of ensuring that the NWB has an accurate annual update of activities related to Water use and Waste disposal during each calendar year. This information is maintained on the Public Registry and is available to interested parties upon request. A “Standardized Form for Annual Reporting” is to be used by the Licensee and is available from the NWB Public Registry link at:

<https://public.nwb-oen.ca/other%20documents/Standardized%20Forms/>

Water Use

No Water use is requested under this renewal Licence. All potable Water is currently obtained and accounted for under Licence No: 3AM-RUT2035, issued to the Hamlet of Resolute Bay. The Board has, however, authorized under Part C, Item 1 of this Licence, the use of one (1) cubic metre of water per year for sampling and monitoring purposes.

In the previous Licence 3BM-YRB2126, the water source was mentioned as Strip Lake. The Licensee clarified that the raw water sampling point is at Char Lake (not Strip Lake), and requested correction in the Renewal Licence. The water source for the raw water sampling in the Renewed Licence is now corrected as Char Lake.

Waste Management

All requirements pertaining to waste management that were imposed by the previous Water Licence 3BM-YRB2126 have been carried forward into the renewed Water Licence 3BM-YRB2631.

CIRNAC in their submission recommended that the Applicant implement an approach to measure independently the quantity of sewage waste discharged. The Licensee noted they are currently evaluating the installation of a flow meter on the raw sewage discharge line to accurately measure the daily volume of raw wastewater discharged into the lagoon. In addition, a second flow meter is being considered for installation on the effluent discharge line during lagoon decanting operations to measure the volume of treated wastewater effluent pumped from the lagoon into the wetland. During this interim period, they will provide estimated quantities for raw wastewater volume, sludge volume, and treated effluent volume in the 2026 Annual Report, based on best practices outlined in the CSA standard for the design and operation of northern lagoons, CSA Group CSA W203.

CIRNAC in their submission also highlighted non-compliance identified by Applicant for the disposal of hazardous waste, waste oil and non-combustible waste and recommended the Applicant to provide clarification on the current measures in place for handling hazardous waste, waste oil, and non-combustible waste, as well as any anticipated timelines for implementing the planned backhauling described in the Plan for Compliance.

The Applicant in their response noted that they will follow the standard northern practice and procedure of disposal of hazardous wastes to the south and confirmed that they have established a plan to collect and store hazardous waste, waste oil, and non-combustible waste materials in

empty fuel drums which will be properly sealed, stored safely, and transported to southern disposal facilities using the annual summer sealift service, as required.

Management Plans

The Licensee submitted the following plans as additional information with their Renewal Application:

- Spill Contingency Plan
- Operations and Maintenance (O&M) Plan
- Quality Assurance/Quality Control (QA/QC) Plan
- Plan of Compliance

CIRNAC in their submission provided a number of comments and recommendations related to the Spill Contingency Plan (SCP), Operations and Maintenance (O&M) Plan, and the Quality Assurance/Quality Control (QA/QC) Plan. As a result, the Licensee submitted revised versions of these plans. The Board has approved the following plans:

- *Spill Contingency Plan, Resolute Bay Airport Existing Sewage Lagoon*, dated May 2026; and
- *Operation and Maintenance Manual for the Resolute Bay Airport Existing Sewage Lagoon*, dated May 2026.

In their submission, CIRNAC recommended to provide an update on the status and anticipated completion timeline of the Closure and Reclamation Plan for the existing sewage lagoon. The Licensee clarified that a different division of TIN is handling the WWTP and the closure of this facility is linked to the construction of the WWTP, which is expected within 4 years. The Licensee committed to submitting the Closure and Reclamation Plan for Board's approval, a year before abandoning the lagoon. Part G, Item 1 of the Licence requires the Licensee to submit to the Board for approval six months prior to abandoning any facilities, a Closure and Reclamation Plan.

Monitoring

All Monitoring requirements imposed by previous Water Licence 3BM-YRB2126 have been carried forward into the renewed Water Licence 3BM-YRB2631 under [Part H](#).

The Licensee is required to seek approval from the Board prior to making any changes to the monitoring program. It should also be noted that additional sampling may be required upon request by the Board or the Inspector.

DECISION

LICENCE NUMBER: 3BM-YRB2631

This is the decision of the Nunavut Water Board (NWB) with respect to an application dated January 23, 2026 for the renewal of type B Water Licence made by the:

GOVERNMENT OF NUNAVUT – TRANSPORTATION AND INFRASTRUCTURE NUNAVUT

to allow for the continued deposit of Waste for a Municipal undertaking occurring within the municipal boundaries of the Hamlet of Resolute Bay, in the Qikiqtani Region of Nunavut, at the following general geographical coordinates:

Latitude: 74° 42' 00" N Longitude: 94° 50' 00" W

DECISION

After having been satisfied that the Application is for a proposal that was previously reviewed by the Nunavut Planning Commission (NPC)² and for which the conformity determinations dated June 28, 2016, and August 4, 2021, remain applicable, is exempt from the *Nunavut Planning and Project Assessment Act (NuPPAA)* under Section 235, and is exempt from the requirements for screening by the Nunavut Impact Review Board (NIRB) as described within s. 12.4.3 / Schedule 12-1 of the *Nunavut Agreement*, the NWB decided that the Application could proceed through the regulatory process. In accordance with s. 55.1 of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSTRA or Act)* and Article 13 of the Nunavut Agreement, public notice of the Application was given and interested persons were invited to make representations to the NWB.

After reviewing the submission of the Applicant and considering the representations made by interested persons, the NWB, having given due regard to the facts and circumstances, the merits of the submissions made to it and to the purpose, scope and intent of the *Nunavut Agreement* and of the *Act*, waived the requirement to hold a public hearing, and determined that:

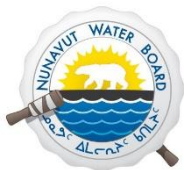
Licence No: 3BM-YRB2126 be renewed as Licence No: 3BM-YRB2631, subject to the terms and conditions contained therein (Motion #: 2026-B1-010).

Signed this 06th day of JULY, 2026 at Gjoa Haven, NU.

Lootie Toomasie
Nunavut Water Board, Chair

LT/aj/rqd

² Nunavut Planning Commission (NPC) Conformity Determination, dated October 27, 2025.



NUNAVUT WATER BOARD RENEWAL WATER LICENCE

Licence No: 3BM-YRB2631

Pursuant to the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada*, the Nunavut Water Board, hereinafter referred to as the Board, hereby grants to

THE GOVERNMENT OF NUNAVUT – TRANSPORTATION AND INFRASTRUCTURE NUNAVUT

(Licensee)

P.O BOX 560, RANKIN INLET, NUNAVUT X0C 0G0

(Mailing Address)

hereinafter called the Licensee, the right to dispose of Waste for a period subject to restrictions and conditions contained within this Licence renewal:

Licence Number/Type: **3BM–YRB2631 / TYPE B**

Water Management Area: **BATHURST & CORNWALLIS ISLANDS
WATERSHED (55)**

Location: **HAMLET OF RESOLUTE BAY, QIKIQTANI REGION,
NUNAVUT**

Classification: **MUNICIPAL UNDERTAKING**

Purpose: **DEPOSIT OF WASTE**

Quantity of Water use not
to exceed: **ONE (1) CUBIC METRE OF WATER PER YEAR
(FOR SAMPLING PURPOSES ONLY)**

Effective Date: **DECEMBER 22, 2026**

Expiry of Licence: **DECEMBER 21, 2031**

This Licence renewal, issued and recorded at Gjoa Haven, Nunavut, includes and is subject to the annexed conditions.

**Lootie Toomasie,
Nunavut Water Board, Chair**

PART A: SCOPE, DEFINITIONS AND ENFORCEMENT

1. Scope

This Licence allows for the Deposit of Waste for a Municipal undertaking, by the Government of Nunavut – Transportation and Infrastructure Nunavut, classified as per Schedule 1 of the *Regulations*, located in the Qikiqtani Region, Nunavut.

- a. This Licence is issued 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 Governor in Council under the *Nunavut Waters and Nunavut Surface Rights Tribunal 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 subject to such requirements; and
- b. 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

“**Act**” means the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*;

“**Addendum**” means the supplemental text that is added to a full plan or report usually included at the end of the document and is not intended to require a full resubmission of the revised report;

“**Amendment**” means a change to original terms and conditions of this Licence requiring correction, addition or deletion of specific terms and conditions of the Licence; modifications inconsistent with the terms of the set terms and conditions of the Licence;

“**Appurtenant Undertaking**” means an undertaking in relation to which a use of water or a deposit of waste is permitted by a licence issued by the Board;

“**Board**” means the Nunavut Water Board established under the *Nunavut Land Claims Agreement* and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*;

“**Effluent**” means treated or untreated liquid waste material that is discharged into the environment from a structure such as a sewage lagoon, settling pond, landfarm or a treatment plant;

“**Engineer**” means a professional engineer registered to practice in Nunavut in accordance with the *Consolidation of Engineers and Geoscientists Act S. Nu 2008, c.2* and the *Engineering and Geoscience Professions Act S.N.W.T. 2006, c.16 Amended by*

S.N.W.T. 2009, c.12;

“Final Discharge Point” with respect to effluent means the stream from Finger Lake immediately prior to entry into Airport Lake;

“Freeboard” means the vertical distance between water line and crest on a dam or dyke’s upstream slope;

“Geotechnical Engineer” means a professional engineer registered to practice in Nunavut in accordance with the Consolidation of Engineers and geoscientists Act S. Nu 2008, c.2 and the Engineering and Geoscience Professions Act S.N.W.T. 2006, c.16 Amended by S.N.W.T. 2009, c.12.

“Grab Sample” means an undiluted quantity of material collected at a particular time and place that may be representative of the total substance being sampled at the time and place it was collected;

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

“High Water Mark” means the usual or average level to which a body of water rises at its highest point and remains for sufficient time so as to change the characteristics of the land (ref. Department of Fisheries and Oceans Canada, Operational Statement: Mineral Exploration Activities);

“Inspector” means an Inspector designated by the Minister under Section 85 (1) of the Act;

“Licensee” means the holder of this Licence;

“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;

“Monitoring Program” means a monitoring program established to collect data on surface water and groundwater quality to assess impacts to the freshwater aquatic environment of an appurtenant undertaking;

“Nunavut Agreement” means the *“Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada”*, including its preamble and schedules, and any amendments to that agreement made pursuant to it;

“Regulations” means the *Nunavut Waters Regulations* SOR/2013-69 18th April, 2013;

“Secondary Containment” means an impermeable structure, external to and separate from primary containment, which prevents unplanned spills of hazardous materials and provides a minimum capacity of 110% of the original vessel. Where multiple vessels are stored within the containment, it must provide a minimum capacity equal to the sum of

the largest vessel and 10% of the aggregate volume of all other vessels located in the containment. This structure shall also provide containment and control of hoses and nozzles;

“**Sewage**” means all toilet wastes and greywater;

“**Sewage Disposal Facility**” comprises the area and engineered lagoon and decant structures designed to contain sewage and commercial wastewater as described in the Application for Water Licence filed by the Applicant on August 30, 2021;

“**Spill Contingency Plan**” means a Plan developed to deal with unforeseen petroleum and hazardous materials events that may occur during the operations conducted under the Licence;

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

“**Waste**” means, as defined in s. 4 of the *Act*, any substance that, by itself or in combination with other substances found in water, would have the effect of altering the quality of any water to which the substance is added to an extent that is detrimental to its use by people or by any animal, fish or plant, or any water that would have that effect because of the quantity or concentration of the substances contained in it or because it has been treated or changed, by heat or other means;

“**Water**” or “**Waters**” means waters as defined in section 4 of the *Act*.

3. **Enforcement**

- a. Failure to comply with this Licence will be a violation of the *Act*, subjecting the Licensee to the enforcement measures and the penalties provided for in the *Act*;
- b. All inspection and enforcement services regarding this Licence will be provided by Inspectors appointed under the *Act*; and
- c. For the purpose of enforcing this Licence and with respect to the use of Water and deposit or discharge of Waste by the Licensee, Inspectors appointed under the *Act*, hold all powers, privileges and protections that are conferred upon them by the *Act* or by other applicable law.

PART B: GENERAL CONDITIONS

1. The Licensee shall file an Annual Report on the Appurtenant Undertaking with the Board no later than the 31st of March of the year following the calendar year being reported, containing the following information:
 - a. Tabular summaries of all data generated under the “Monitoring Program” under Part H, and an indication of wastewater treatment levels upstream and downstream of the Wetland Area;
 - b. Summary of modifications to the “Monitoring Program” in accordance with Part H, Item 10;
 - c. The annual quantity in cubic metres of any sludge removed from the Sewage Disposal Facility along with the treatment, storage, and disposal provided as required in Part H, Item 8;
 - d. A summary of modifications and/or major maintenance work carried out on the Sewage Disposal Facility, including all associated structures and facilities;
 - e. A list of unauthorized discharges and summary of follow-up action taken;
 - f. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;
 - g. Any updates or revisions for manuals and plans, including the Spill Contingency Plan, Quality Assurance/ Quality Control Plan and Operations and Maintenance Manual, as required by changes in operation and/or technology, may be subject to Board acceptance and/or approval;
 - h. Detailed minutes of any public consultation and participation with local organizations and the residents of the community regarding licence amendments;
 - i. Summary of any studies or reports requested by the Board that relate to Water use and Waste disposal or restoration, and a brief description of any future studies planned; and
 - j. Any other details on Water use or Waste disposal requested by the Board by the 1st of November of the year being reported.
2. The Licensee shall comply with the Monitoring Program described in this Licence, and any amendments to the Monitoring Program as may be made from time to time, pursuant to the conditions of this Licence.
3. The Monitoring Program and compliance dates specified in the Licence maybe modified at the discretion of the Board in writing.
4. The Licensee shall install flow meters or other such devices, or implement suitable methods required for the measuring of Waste discharged as required under Part H, Monitoring Program.
5. The Licensee shall post the necessary signs to identify the stations of the “Monitoring Program”. All signage postings shall be in the Official Languages of Nunavut.
6. The Licensee shall ensure a copy of this Licence is maintained at the site of operations at all times. Any communication with respect to this Licence shall be made in writing to the attention of:

(a) Manager of Licensing:

Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0
Telephone: (867) 360-6338
Fax: (867) 360-6369
Email: licensing@nwb-oen.ca

(b) Inspector Contact:

Manager of Field Operations, CIRNAC
Nunavut District, Nunavut Region
P.O. Box 100
Iqaluit, NU X0A 0H0
Telephone: (867) 975-4284
Fax: (867) 979-6445

7. The Licensee shall submit an electronic copy of all reports, studies, and plans to the Board. Reports or studies submitted to the Board by the Licensee shall include a detailed executive summary in English and Inuktitut.
8. The Licensee shall ensure that all document(s) and correspondence submitted by the Licensee, to the NWB, are received and acknowledged by the Manager of Licensing.
9. The Licensee shall, for all Plans submitted under this Licence, include a proposed timetable for implementation. Plans submitted, cannot be undertaken without subsequent written Board approval and direction. The Board may alter or modify a Plan if necessary to achieve the legislative objectives and will notify the Licensee in writing of acceptance, rejection or alteration of the Plan.
10. The Licensee shall, for all Plans submitted under this Licence, implement the Plan as approved by the Board in writing.
11. The Licensee shall review the Plans referred to in this Licence, as required by changes in operation and/or technology, and modify the Plan accordingly. Revisions to the Plans shall be submitted in the form of an Addendum to be included with the Annual Report.
12. Every Plan to be carried out pursuant to the terms and conditions of this Licence shall become a part of this Licence, and any additional terms and conditions imposed upon approval of a Plan by the Board become part of this Licence. All terms and conditions of the Licence should be contemplated in the development of a Plan where appropriate.
13. The Board may alter or modify a Plan if necessary to achieve the legislative objectives and will notify the Licensee in writing of acceptance, rejection or alteration of the Plan.
14. The compliance dates specified in the Licence may be modified upon approval of the Board in writing.
15. This Licence is assignable as provided for in section 44 of the *Act*.

16. The expiry or cancellation of this Licence does not relieve the Licensee from any obligation imposed by the Licence, or any other regulatory requirement.

PART C: CONDITIONS APPLYING TO WATER USE

1. The Licensee is authorized to use up to one (1) cubic metre of Water per year for sampling activities from Char Lake.
2. The Licensee shall not remove any material from below the ordinary High Water Mark of any water body unless approved by the Board in writing.
3. The Licensee shall not cause erosion to the banks of any water body and shall provide necessary controls to prevent such erosion.
4. The Licensee shall implement sediment and erosion control measures prior to and maintained as required during Hamlet operations, to prevent entry of sediment into Water.

PART D: CONDITIONS APPLYING TO WASTE DISPOSAL

1. The Licensee shall direct all Sewage generated under the scope of this Licence to the Sewage Disposal Facility or as otherwise approved by the Board in writing.
2. All Effluent discharged from the Sewage Disposal Facility at Monitoring Program Station YRB-3 and YRB-4 shall not exceed the following Effluent quality limits:

Parameter	Maximum Concentration of any Grab Sample
BOD ₅	120 mg/L
Total Suspended Solids	180 mg/L
Faecal Coliforms	1 x 10 ⁶ CFU/100mL
Oil and grease	No visible sheen and 5 mg/L
pH	between 6 and 9

3. The Licensee shall ensure that a Freeboard limit of 1.0 metre, or as recommended by a Geotechnical Engineer and approved by the Board, is maintained at all dykes and earth-fill structures associated with the Sewage Disposal Facility.
4. The Licensee shall advise an Inspector at least ten (10) days prior to initiating any decant of the Sewage Disposal Facility.
5. The Sewage Disposal Facility shall be maintained to the satisfaction of an Inspector, and operated in such a manner as to prevent erosion and structural failure.
6. If, during the term of this Licence, additional Final Discharge Points are identified, the Licensee shall submit the information pertaining to the new Final Discharge Point, within

thirty (30) days after the discharge point is identified and at least sixty (60) days prior to the release of Effluent through the new Final Discharge Point and/or proposed changes are made to a Final Discharge Point.

7. The Licensee shall backhaul and dispose of all hazardous Wastes, Waste oil and non-combustible Waste generated through the course of the operation at a licensed Waste disposal site.
8. The Licensee shall maintain records of all Waste backhauled and records of confirmation of proper disposal of backhauled Waste. These records shall be made available to an Inspector upon request
9. The Licensee shall implement measures to monitor the impact of leachate from the Sewage Disposal Facility.
10. The Licensee shall measure, annually, the depth and quality of the sludge generated by the Sewage Disposal Facility as well as implement measures to ensure adequate management of the sludge generated.

PART E: CONDITIONS APPLYING TO MODIFICATIONS AND CONSTRUCTION

1. The Licensee shall submit to the Board for approval, for construction drawings stamped and signed by a qualified engineer, at least sixty (60) days prior to the construction of any dams, dykes or structures intended to contain, withhold, divert or retain Water or Waste.
3. 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. such Modifications do not place the Licensee in contravention of the Licence or the Act;
 - c. such Modifications do not constitute “significant modifications” that require conformity assessment by the Nunavut Planning Commission and/or impact assessment by the Nunavut Impact Review Board before consideration by the NWB;
 - d. within sixty (60) days following notification of the proposed Modifications, the Licensee, Nunavut Planning Commission, Nunavut Impact Review Board, designated Inuit organization or responsible regulatory authority has not indicated that any conformity determination, impact assessment, compensation negotiations or other consideration of the Modification that must be completed before the NWB can consider the Modification will take longer than 45 days; and
 - e. within sixty (60) days following notification of the proposed Modifications, the Board has not indicated that a written approval is required or rejected the proposed Modifications.

4. Modifications for which all of the conditions referred to in Part E, Item 2(a) through (d), have not been met, may only be carried out upon written approval from the Board.
5. The Licensee shall provide as-built plans and drawings of the Modifications or construction referred to in this Part within ninety (90) days of completion of the Modification or construction. These plans and drawings shall be stamped and signed by an Engineer.
6. All activities shall be conducted in such a way as to minimize impacts on surface drainage and the Licensee shall immediately undertake any corrective measures in the event of any impacts on surface drainage.

PART F: CONDITIONS APPLYING TO OPERATIONS AND MAINTENANCE

1. The Licensee shall implement the Plan entitled *Operation and Maintenance Manual for the Resolute Bay Airport Existing Sewage Lagoon*, dated May 2026, that was submitted as additional information with the Application and was approved by the Board with the issuance of this Licence.
2. An inspection of all engineered structures or facilities designed to contain, withhold, divert, or retain Water or Waste, shall be conducted by an Engineer, at least once annually, during the summer months (July/August) and/or during periods of flow. An Engineer's report shall be submitted to the Board within sixty (60) days of the date of inspection, including a cover letter from the Licensee outlining an implementation plan to address each of the Engineer's recommendations.
3. An inspection of all engineered facilities shall be conducted, during the summer period (July/August), by a Geotechnical Engineer in accordance with the Canadian Dam Safety Guidelines, at least one (1) year prior to expiry of the Licence or at five (5) year interval, whichever occurs first. The Geotechnical Engineer's report shall be submitted to the Board within sixty (60) days of the inspection, including a cover letter from the Licensee outlining an implementation plan to address each of the Engineer's recommendations.
4. The Licensee shall implement the Plan entitled *Spill Contingency Plan, Resolute Bay Airport Existing Sewage Lagoon*, dated May 2026, that was submitted as additional information with the Renewal Application and was approved by the Board with the issuance of this Licence.
5. If during the term of this Licence, an unauthorized discharge of Waste occurs, or if such a discharge is foreseeable, the Licensee shall:
 - a. Employ the approved Spill Contingency Plan;
 - b. Report the spill immediately via the [online Spill Report Webform](#) or by calling NWT/NU 24-Hour Spill Reporting Line at (867) 920-8130, and the Inspector at (867) 975-4284; and
 - c. For each spill occurrence, submit to the Inspector, no later than thirty (30) days after initially reporting the event, a detailed report that will include the amount

and type of spilled product, the GPS location of the spill, and the measures taken to contain and clean up the spill site.

6. The Licensee shall, in addition to Part F, Item 5, regardless of the quantity of releases of harmful substances, report to the 24-Hour NWT/NU Spill Line or the [online Spill Report Webform](#) if the release is near or into a Water body.

PART G: CONDITIONS APPLYING TO CLOSURE AND RECLAMATION

1. The Licensee shall submit to the Board for approval in writing, at least six (6) months prior to abandoning any facilities and the construction of new facilities to replace existing ones, a Closure and Reclamation Plan that includes but is not limited, where applicable, to the following:
 - a. Water intake facilities;
 - b. the Water treatment and Waste disposal sites and facilities;
 - c. petroleum and chemical storage areas;
 - d. any site affected by Waste spills;
 - e. leachate prevention;
 - f. an implementation schedule;
 - g. maps delineating all disturbed areas, and site facilities;
 - h. consideration of altered drainage patterns;
 - i. type and source of cover materials;
 - j. future area uses;
 - k. hazardous Wastes; and
 - l. a proposal identifying measures by which restoration costs will be financed by the Licensee upon abandonment.
2. The Licensee shall implement the plan specified in Part G, Item 1 as and when approved by the Board in writing.
3. The Licensee shall conduct and submit together with the Plan required under Part G, Item 1, an Environmental Assessment of the area occupied by the Sewage Disposal Facility including Wetland Area.
4. The Licensee shall complete the restoration work within the time schedule specified in the Plan, or as subsequently revised and approved by the Board in writing.
5. The Licensee shall carry out progressive reclamation of any components of the project no longer required for the Licensee's operations.
6. All disturbed areas shall be stabilized and re-vegetated as required upon completion of work and restored as practically as possible to a pre-disturbed state.

PART H: CONDITIONS APPLYING TO THE MONITORING PROGRAM

1. The Licensee shall maintain Monitoring Program Stations and implement the program as described in the table below and the conditions under this Part.

Monitoring Program Station ID	Description	Frequency	Status
YRB-1a	Water Sampling Point at Char Lake	Annually during Periods of Flow	Active (Water Quality)
YRB-1b	Effluent from the Sewage Disposal Facility	<u>Volume</u> Monthly and Annually during Periods of Flow	Active (Volume) (Water Quality)
YRB-2	Effluent within the Wetland Area	<u>Water Quality</u> Monthly during periods of flow	Active (Water Quality)
YRB-3	Effluent within the Wetland Area	<u>Water Quality</u> Annually during periods	Active (Water Quality)
YRB-4	Effluent at the Final Discharge Point / Downstream of the Wetland	<u>Water Quality</u> Annually during periods of flow	Active (Water Quality)

2. The Licensee shall confirm the locations and GPS coordinates for all monitoring stations referred to in Part H, Item 1 with an Inspector.
3. The Licensee shall sample Monitoring Stations YRB-1a, YRB-1b, YRB-2, YRB-3, and YRB-4 for the following parameters in accordance with the frequency outlined in Part H, Item 1:

Biochemical Oxygen Demand BOD ₅	Fecal Coliforms
Total Suspended Solids	pH
Conductivity	Nitrate-Nitrite
Oil and Grease (visual)	Total Phenols
Magnesium	Calcium
Sodium	Potassium
Chloride	Sulphate
Total Hardness	Total Alkalinity
Ammonia Nitrogen	Total Zinc
Total Cadmium	Total Iron
Total Cobalt	Total Manganese
Total Chromium	Total Nickel
Total Copper	Total Lead

Total Mercury Total

Organic Carbon (TOC)

Total Aluminum

Total Arsenic

Carbonaceous Biochemical Oxygen Demand (cBOD)

4. The Licensee shall record the ambient conditions (including precipitation, wind speed and direction, air temperature, and pH and temperature of receiving waterbody) and any other notable conditions (such as algal growth) at the time of sampling, and use this information to support the interpretation of monitoring data.
5. The Licensee shall conduct all sampling, sample preservation and analyses 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 a laboratory certified by the Canadian Association for Laboratory Accreditation (CALA) and as otherwise acceptable to the Board.
6. All analyses shall be performed in a laboratory accredited according to ISO/IEC Standard 17025. The accreditation shall be current and in good standing.
7. The Licensee shall measure and record in cubic metres the monthly and annual quantities of Effluent discharged at Monitoring Program Station Number YRB-4 into the receiving environment.
8. The Licensee shall measure and record in cubic metres, the annual quantities of Sewage solids removed from the Sewage Disposal Facility.
9. The Licensee shall include all of the data and information required by the Monitoring Program in the Licensee's Annual Report, as required under Part B, Item 1.
10. Modifications to the Monitoring Program may be made only upon written approval from the Board. Requests for changes to the Monitoring Program should be forwarded to the NWB in writing, and should include the justification and appropriate evidence to support the requested change.