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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

**File No. 3AM-IQA1626 / Amendment No. 4**

September 4, 2019

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**Subject: Licence No. 3AM-IQA1626 – City of Iqaluit; Amendment No. 4 – Seasonal Replenishment of Lake Geraldine Reservoir from the Niaqunguk River (Apex River)**

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Dear Ms. Elgersma and Mr. Hamp:

Please find attached Amendment No. 4 to the Type “A” Licence No. 3AM-IQA1626 along with the associated Reasons for Decision, duly issued by the Nunavut Water Board (NWB) (**Motion No.: 2019-11-P6-03**) to the City of Iqaluit (City or Licensee), pursuant to the Board’s 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*, S.C. 2002, c. 10 (NWNSRTA).

Amendment No. 4 primarily addresses changes to terms and conditions within Part D: Conditions Applying to the Use of Waters and Water Management Plans contained in Licence No. 3AM-IQA1626 to allow for seasonal pumping of water from Niaqunguk River (Apex River) to Geraldine Lake and associated monitoring for the remaining term of the Licence (expiring in 2026). The terms and conditions of the original Licence related to the use of Waters and deposit of Waste remain an integral part of this approval. Please note that before the amendments to the Licence included in Amendment No. 4 as issued take effect, the amendments must be approved by the Minister of Crown-Indigenous Relations and Northern Affairs (Minister) pursuant to s. 56 of the NWNSRTA.

The NWB recommends that the Licensee consult the accompanying Reasons for Decision Including Record of Proceedings and all comments received by interested persons on the Application during the licensing process.

Please also note that the Board is providing the Amendment and the accompanying Reasons for Decision Including Record of Proceedings to the Minister under a separate cover.

Sincerely,

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Lootie Toomasie  
Nunavut Water Board, Chair  
LT/dd/rqd

Enclosure: **Licence No. 3AM-IQA1626 – Amendment No. 4**  
cc. Iqaluit Distribution List

## DECISION

### WATER LICENCE 3AM-IQA1626 - AMENDMENT NO. 4

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<b>Licensee:</b>	<b>The City of Iqaluit</b>
<b>Licence No:</b>	<b>3AM-IQA1626 Type “A”</b>
<b>Licence Issued:</b>	<b>June 17, 2016</b>
<b>Licence Expiry:</b>	<b>June 16, 2026</b>
<b>Amendment No. 4 Effective:</b>	<b>April 1, 2020</b>

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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 (NWNSRTA or Act)*, with respect to the Application for an amendment to the Licence noted above, dated February 1, 2019, provided by the City of Iqaluit, the Nunavut Water Board (NWB or Board) hereby grants the following licence amendments (Amendment No. 4).



## **NUNAVUT WATER BOARD**

### **WATER LICENCE 3AM-IQA1626 - AMENDMENT NO. 4**

#### **AMENDMENT NO. 4**

Amend Page 3 **Quantity of Water not to be exceeded** to read:

**2,000,000 CUBIC METERS ANNUALLY FROM LAKE GERALDINE RESERVOIR, 500,000 CUBIC METERS ANNUALLY FROM NIAQUNGUK RIVER (APEX RIVER) FOR TRANSFER TO LAKE GERALDINE RESERVOIR.**

#### **PART A: SCOPE, DEFINITIONS, AND ENFORCEMENT**

Insert Item 1. k.:

Construction, operation, and removal of temporary facilities for the Supplementary Pumping Program (SPP).

#### **PART D: CONDITIONS APPLYING TO THE USE OF WATER AND WATER MANAGEMENT PLANS**

Amend Item 1 to Read:

The Licensee is authorized to withdraw, from the Lake Geraldine Reservoir at Monitoring Station No. IQA-01, up to 2,000,000 cubic metres of Water annually for the relevant activities, works, and undertakings authorized under the scope of this Licence.

The Licensee is authorized to withdraw, from the Niaqunguk River (Apex River) at Monitoring Station No. IQA-10, up to a total of 500,000 cubic metres of Water annually for the supplementation of Water levels in the Lake Geraldine Reservoir.

Insert Item 10:

Unless approved or otherwise authorized by Fisheries and Oceans Canada, the Licensee shall ensure that withdrawals from the Niaqunguk River (Apex River) at Monitoring Station No.: IQA-10 only occur when the natural flow in the Niaqunguk River (Apex River) is above 30% of the mean annual discharge (MAD) and the withdrawals will not exceed 10% of the instantaneous flow of the Niaqunguk River (Apex River). If, at any time, Fisheries and Oceans Canada advises the Licensee that due to potential effects on fish or fish habitat the withdrawals from the Niaqunguk River (Apex River) are no longer acceptable, the withdrawals must cease until Fisheries and Oceans Canada indicates that the withdrawals can resume.

Insert Item 11:

The Licensee shall, at least thirty (30) days prior to the intended annual start of water withdrawals referred to in Part D, Item 10, submit to the Board, for review, an updated Lake Geraldine Water Balance Model completed with the most up to

date data available.

Insert Item 12:

The Licensee shall, prior to the expiry of this Licence in 2026, submit to the Board a contingency plan in either a standalone document or as an addendum to a current plan that includes the options for action if the Niaqunguk River (Apex River) is found to have insufficient water volumes to fully supplement the Lake Geraldine Reservoir.

**PART F: CONDITIONS APPLYING TO CONSTRUCTION**

Insert Item 9:

The Board has approved under this Licence 3AM-IQA1626 Amendment No. 4, the Plan entitled “*Apex River Water Withdrawal: Erosion and Sedimentation Control Plan*,” dated December 21, 2018.

**PART H: CONDITIONS APPLYING TO SPILL CONTINGENCY PLANNING**

Amend Item 1:

The Board has approved under this Licence 3AM-IQA1626 Amendment No. 4, the Plan entitled “*Apex River Water Withdrawal: Site Specific Spill Contingency Plan*,” dated December 21, 2018.

**PART I: CONDITIONS APPLYING TO MONITORING**

Insert Item 13:

The Licensee shall monitor the Supplementary Pumping Program (SPP) in accordance with requirements included under Schedule I.

**SCHEDULE A: DEFINITIONS**

Insert Item:

“**Supplementary Pumping Program (SPP)**” means the pumps, pipe/hose, intakes, coffer dams, and related temporary facilities to use fresh Water from the Niaqunguk River (Apex River)), to augment Water levels in the Lake Geraldine Reservoir. The active pumping under the SPP is authorized to proceed in accordance with the terms and conditions of the Licence from June to October annually to address a potential Water shortage in the following winter.

**SCHEDULE B: ANNUAL REPORT REQUIREMENTS**

Insert Item q:

The 2019 Annual Report referred to in Part B, Item 1, shall provide the following information about the SPP including:

1. A summary of the SPP program, including lessons learned, based on

monitoring and mitigation efforts.

2. GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) and datum for the locations of all water withdrawals.
3. The daily and monthly quantities in cubic metres of fresh Water withdrawn from the Niaqunguk River (Apex River) watershed at Monitoring Station No. IQA-10.
4. The daily water levels and/or flow rates in the Niaqunguk River when withdrawals are occurring at Monitoring Station No. IQA-10.
5. All other monitoring conducted to meet the Fisheries and Oceans Canada requirements.
6. Discussion of any observed trends, exceedances, or unanticipated impacts.

## **SCHEDULE I: CONDITIONS APPLYING TO MONITORING**

Amend Table 2:

Station ID	Description	Status	Parameter	Testing/ Measurement Frequency	Reporting Frequency
IQA-01	Lake Geraldine Reservoir – Raw Water Intake	Active	R, PW	Monthly	Biannually
			F	Monthly	
IQA-01(#) <sup>1</sup>	Additional Monitoring Points for Lake Geraldine Reservoir – Raw Water Intake	N/A	N/A	N/A	N/A
IQA-02	Sewage Lagoon –Effluent Discharge Point	Active	B, N, E, ICP	Once prior to discharge; once during discharge; and once prior to the completion of discharge	Annually
			F	During decant	
IQA-03	Sewage Lagoon – Influent	Inactive	N/A	N/A	N/A
IQA-04	Wastewater Treatment Plant - Effluent	Active	B, N, E, ICP	Quarterly – Prior to commissioning of the WWTP	Annually
			B, N, E, ICP	Monthly – Following commissioning of the WWTP	
			AL	Annually – following commissioning of the WWTP	

<sup>1</sup> “#” is a place holder for any additional monitoring sites added to the program.

Station ID	Description	Status	Parameter	Testing/ Measurement Frequency	Reporting Frequency
			F	During Discharge	
IQA-05	Wastewater Treatment Plant - Influent	Active	B, E, N, ICP	Biannually – Prior to commissioning of the WWTP	Annually
				No testing requirements following commissioning of the WWTP	N/A
IQA-06	Sludge – From WWTP	Active	B, E, N, ICP	Quarterly	Annually
IQA-07	Surface Water entering West 40 Landfill	Inactive	N/A	N/A	N/A
IQA-08	West 40 Landfill –Effluent Discharge Point	Active	B, E, N, ICP, F, LS	Once prior to discharge; once during discharge; and once prior to the completion of discharge	Annually
			F	During Discharge	
IQA-08(#) <sup>2</sup>	Additional Effluent Discharge Points for the West 40 Landfill	N/A	N/A	N/A	N/A
IQA-08A	Station situated up-gradient of West 40 Landfill	Active	B, E, N, ICP, F, LS	Annually	Annually
IQA-08B	Station situated down-gradient of West 40 Landfill	Active			
IQA-09	Contaminated soil accepted at the West 40 Landfill	Inactive	NA	N/A	N/A
IQA-10	Withdrawal from Upper Niaqunguk River for transfer directly into the Reservoir.	Active	F	Daily when withdrawals occurring at this station.	Annual Report
IQA-11	Withdrawal from Middle Niaqunguk River watershed for transfer directly into the	Inactive	F	Daily when withdrawals occurring at this	N/A

<sup>2</sup> “#” is a place holder for any additional monitoring sites added to the program.

Station ID	Description	Status	Parameter	Testing/ Measurement Frequency	Reporting Frequency
	Reservoir. Withdrawal point to be located on an ephemeral tributary near where it enters the Niaqunguk River or on the river itself just downstream of the confluence with the tributary.			station.	
IQA-12	Withdrawal from small unnamed source water lakes adjacent to Lake Geraldine Reservoir for transfer directly to the reservoir.	Inactive	F	Daily when withdrawals occurring at this station.	N/A
IQA-13	Withdrawal from large unnamed source water lake for transfer into ephemeral tributary to Niaqunguk River. Intent of withdrawal is to provide water to withdrawal point at Monitoring Station IQA-10.	Inactive	F	Daily when withdrawals occurring at this station.	N/A

**All remaining terms and conditions of Type “A” Water Licence 3AM-IQA1626 dated June 17, 2016, still apply.**

This Licence Amendment No. 4 issued and recorded at Gjoa Haven, NU on September 4, 2019.

Lootie Toomasie  
Chairperson,  
Nunavut Water Board

**APPROVED BY:** Carolyn Bennett  
Minister of Crown-Indigenous  
Relations and Northern Affairs

**DATE:**