

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
Hamlet of Resolute Bay	Bhabesh Roy
Licence No. / Expiry	Representative's Title
3BM-YRB1621	Municipal Engineer
Land / Other Authorizations	Land / Other Authorizations
Date of Inspection	Inspector
July 19, 2021	Joseph Monteith, and Jeremy Fraser
Activities Inspected	

☐ Camp☐ Drilling☐ Mining☐ Construction☐ Reclamation☐ Fuel Storage

☐ Roads/Hauling☒ Other: Sewage Disposal Facility☐ Other:

Conditions:

A- Acceptable

U-Unacceptable

C-Concern

NI-Not Inspected

NA- Not applicable

PART:	Item No.*	Condition	Observation No.*
A: SCOPE, DEFINITIONS AND ENFORCEMENT		A	
B: GENERAL CONDITIONS		C	
C: CONDITIONS APPLYING TO SECURITY		NI	
D: CONDITIONS APPLYING TO WATER USE		A	
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT		C	1-6
F: CONDITIONS APPLYING TO MODIFICATIONS		NI	
G: CONDITIONS APPLYING TO CONSTRUCTION		C	
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING		C	
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING		NI	
J: CONDITIONS APPLYING TO MONITORING		C	
SCHEDULES		NI	

*The item number corresponds with specific conditions within the licence and the observation number corresponds with specific comments provided below.

Samples taken by Inspector:

☐ Yes☒ No

Location(s):

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

SECTION 1	<input checked="" type="checkbox"/> Comments (s.__)	<input type="checkbox"/> Non-Compliance with Act or Licence (s.__)	<input type="checkbox"/> Action Required (s.__)
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BACKGROUND


A renewal Application for 3MB-YRB1621 was acknowledged by the Nunavut Water Board on March 30, 2021.

The licence under which the facility operated, was issued on November 30th, 2003 and expired on November 30th, 2021. The expired licence allowed for the use of water and the deposit of waste in support of a municipal undertaking that included the operation of a potable water treatment facility, solid waste disposal facility, and sewage treatment facility. The scope of the Renewal-Amendment Application, however, excluded the portable water supply facility and several other facilities and/or activities either discontinued or currently covered under distinct licences issued to the hamlet of Resolute Bay, Nunavut.

Inspector Statement

On July 19th, 2021 a water licence inspection was conducted by Water Resource Officer(WRO) Joseph Monteith, Crown Indigenous Relations and Northern Affairs Canada(CIRNAC) and hereafter referred as an Inspector, of the Resolute Bay ATCO Sewage Disposal Facility at the Resolute Bay Airport, Resolute, Nunavut.

It is noted that complete sets of photographs related to this inspection will accompany this report as a supplement at



Report #

Click here to enter text.

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a later date once the photographs do become available.

General Condition


On January 27th, 2021 Robin Ikkutislu of the Nunavut Water Board emailed the Inspector Monteith a copy of Resolute Bay Airport’s 2020 Annual Report satisfying part B - item 1 of the Water Licence.

Sewage Disposal Facility

- 1.The Sewage Disposal Facility is a non-engineered 3 cell lagoon(photo 1).
- 2.Two yellow triangle signs were observed contrary to Part B: Item 5(photo 3).
- 3.The sewage lagoon was partially empty at the time of the inspection.(See Photo #3).
- 4.Signs of historical over flow were observed, and observable from satellite photo (photo 1).
- 5.Signs of Slumping and Erosion were observed. The state of the walls appears to have gone into further decline.
- 6.No Flow metre on water intake or waste discharge. On November, 2020 Bhabesh Roy, Community Government and Services(CGS) with the Government of Nunavut emailed the Inspector Monteith an excel spreadsheet copy of the Water Consumption Report for the months of January 2020 to September 2020 listing Resolute truck consumption numbers total of 3013509 litres consumed. This figure should be articulated as the amount discharged into the Sewage Disposal Facility(photo 4).

<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
<div>-Label the two monitoring posts as listed in the water licence</div> <div>-Maintain the 1 metre free board at the Sewage Disposal Facility</div> <div>-Repair the walls of the Sewage Disposal Facility</div> <div>-Notify WRO Monteith at Joseph.Monteith@rcaanc-cirnac.gc.ca when decanting the Sewage Disposal Facility.</div> <div>-Report to the Spill Line when overflow is observed at the Sewage Disposal Facility</div> <div>-The licensee is reminded to remain diligent to prevent waste from entering water, the environment and to adhere to the discharge criteria listed in the licence.</div>		

SECTION 3	<input type="checkbox"/> Comments	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
<div>Part B: Item 5</div> <div>The licensee shall, within ninety (90) days after the first visit by an Inspector and following issuance of the licence, post the necessary signs to identify the stations of the “Monitoring Program”. All erected signage postings shall be in the official languages of Nunavut.</div> <div>Part D: Item 5</div> <div>The licensee shall advise an Inspector at least ten (10) days prior to initiating any decant of the Sewage Disposal Facility.</div> <div>Part D: Item 6</div> <div>The Sewage Disposal Facilities shall be maintained to the satisfaction of an Inspector, and operated in such a manner as to prevent erosion and structural failure.</div>			

Licensee or Representative	Inspector’s Name
Bhabesh Roy, Todd MacKay	Joseph Monteith
Signature	Signature
	
Date	Date
	November 25, 2021

CC: Licensing Department, NWB
Justin Hack, Manager of Field Operations, CIRNAC

Photo Log

Date	Camera	Inspector
July 19, 2021	Nikon CoolPix	Joseph Monteith

Photo Log #1	Location
Photo 1	ATCO sewage Lagoon, Resolute Bay, NU

3BM-YRB16221

ATCO Sewage Lagoon
3 cell sewage lagoon
GPS N74.739516°, W95.004721°
distance to ocean:1,232.29 metres

5/2021



Google Earth

map © 2021 Maxar Technologies

100 ft

Description: Discharege point for non-engineered sewage lagoon.

Photo Log #	Location
Photo 2	ATCO Sewage Lagoon, Resolute Bay, NU



Description: November 24, 2021 Frozen over sewage lagoon. Ice on top

Photo Log #	Location
Photo 3	ATCO Sewage Lagoon, Resolute Bay, NU



Description: November 24, 2021 Frozen over sewage lagoon.

Photo Log #		Location														
Photo 4		ATCO Sewage Lagoon, Resolute Bay, NU														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Resolute Bay Truck and Utilidor water consumption for 2021															
2	months															
3	Community	January	February	March	April	May	June	July	August	September	October	November	December	Total	Av. Monthly	Av.daily
4																
5	RB - Truck	327,774	395,465	697,372	504,617	566,899	458,247	plant bypass	plant bypass	plant bypass	63,136			3,013,509	430,501	10,045
6	RB - Utilidor	25,867,018	19,227,812	19,642,439	19,985,251	21,058,458	20,381,589	3,335,414	29,296,282	32,140,977	46,014,708			165,812,847	23,694,995	552,709
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