



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
August 15, 2020	Joseph Monteith, and Jeremy Fraser
Activities Inspected	
<div><input type="checkbox"/> Camp<input type="checkbox"/> Drilling<input type="checkbox"/> Mining<input type="checkbox"/> Construction<input type="checkbox"/> Reclamation<input type="checkbox"/> Fuel Storage</div> <div><input type="checkbox"/> Roads/Hauling<input checked="" type="checkbox"/> Other: Sewage Disposal Facility<input type="checkbox"/> Other:</div>	

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	
<i>*The item number corresponds with specific conditions within the licence and the observation number corresponds with specific comments provided below.</i>			
Samples taken by Inspector:		Location(s):	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		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.__)
BACKGROUND <p>Application is by the Government of Nunavut – Community and Government Services, on behalf of the Government of Nunavut – Department of Economic Development and Transportation (the Licensee), for the renewal, for a term of five (5) years, as well as the amendment of an expired, Type “B” Water Licence (Licence No. 3BM-YRB0308/NWB3YRB0308), to allow for the continued operation of a Sewage Disposal Facility (the Facility). The Facility in question is located within the Hamlet of Resolute Bay, in the Qikiqtani Region, Nunavut. The Licence under which the Facility operated was issued on November 30, 2003 and expired on November 30, 2008. 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 or other entities.</p>			
Inspector Statement <p>On August 14, 15 at 10:30 am, A Water Licence Inspection was conducted by Water Resource Officer Joseph Monteith at the Resolute Bay Sewage Disposal Facility at the Resolute Bay Airport. This inspection was complete on July 13, 2019 at 3:10pm.</p>			



General Condition

On July 12, 2018 Richard Dwyer, Nunavut Water Board, Manager of Licencing, emailed Water Resource Officer(WRO) Monteith a copy of Resolute Bay Airport’s 2017 Annual Report. Satisfying Part B: Item 1 of the Water Licence. Although an Annual Report was submitted within the time required, not all aspects of submission requirements were achieved. As detailed in Richard Dwyer’s review of the submission it was noted that Part H, Item 3 and Part H, Item4, Part D, Item 3 was not satisfied. Also the amount of water consumption can be misleading as the licence states only 1 cubic metre per year for sampling, they reported above the 1 cubic metre per year, due to the mixed submission of water consumption for 3BM-RUT1520 rather than 3BM-YRB1621. The Hamlet does not have a water/waste flow metre and does not articulate its calculation for waste deposited into the Sewage Disposal Facility.

Sewage Disposal Facility

- 1.The Sewage Disposal Facility is a non-engineered 3 cell lagoon.
- 2.Two yellow triangle signs were observed contrary to Part B: Item 5. (See Photo #1 & 2).
- 3.The Freeboard was above 1 metre (See Photo #3).
- 4.Signs of over flow were observed (See Photo #4). Spill report 2017-127 was reported on April 25, 2017 for 50,000 Litres of waste water from an overflow event at the Sewage Lagoon.
- 5.Signs of Slumping and Erosion were observed (See Photo #5). This observation appears to not have been addressed as requested in past inspection reports. The state of the walls appears to have gone into further decline.
- 6.No Flow metre on water intake or waste discharge. On October 22, 2020 Bhabesh Roy, Government of Nunavut(GN), Community Government and Services(CGS) emailed WRO Monteith a excel spreadsheet copy of the Water Consumption Report for the months of January 2020, to September 2020, listing Resolute Truck consumption numbers total of 3218184 Litres consumed. This figure should be articulated as the amount discharged into the Sewage Disposal Facility.

<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
The following information is a summary of the Actions Required by the licensee to promote and ensure compliance: -articulate how you calculate the amount of waste deposited into the Sewage Disposal Facility. -label the two monitoring posts as listed in the water licence -provide all requirements for submission of Annual Reports -maintain the 1 metre free board at the Sewage Disposal Facility -repair the walls of the Sewage Disposal Facility -notify WRO Monteith at Joseph.Monteith@Canada .ca when decanting the Sewage Disposal Facility. -report to the Spill Line when overflow is observed at the Sewage Disposal Facility -the Licensee is reminded to remain diligent to prevent wastes from entering water, the environment, and to adhere to the discharge criteria listed in the licence.		

SECTION 3	<input type="checkbox"/> Comments	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
<p>Part B: Item 5</p> <p>The Licensee shall, within ninety (90) days after the first visit by an Inspector, following issuance of the Licence, post the necessary signs to identify the stations of the “Monitoring Program”. All signage postings shall be in the Official Languages of Nunavut.</p> <p>Part D: Item 5</p> <p>The Licensee shall advise an Inspector at least ten (10) days prior to initiating any decant of the Sewage Disposal Facility.</p> <p>Part D: Item 6</p> <p>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.</p>			

Licensee or Representative	Inspector’s Name
Bhabesh Roy, Todd MacKay	Joseph Monteith
Signature	Signature
Date	Date
	November 25, 2019

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

PHOTO LOG

Date	Camera	Inspector	
July 13, 2019	Nikon CoolPix	Joseph Monteith	
Photo Log #1		Location	
Photo 1		Resolute Bay, NU	
			
Description: Discharge point for non-engineered sewage lagoon.			

Photo Log #	Location
Photo 2	Resolute Bay, NU
	
Description: monitoring station	



Photo Log #	Location
Photo 3	Resolute Bay, NU
	
Description: Condition of walls have not been maintained, or repaired.	


Photo Log #	Location
Photo 4	Resolute Bay, NU
	
Description: Sewage Lagoon was dry due to natural filtration. Due to COVID-19 seasonal deposits decreased.	



Photo Log #

Location

Photo 5

Resolute Bay, NU



Description: New material was placed downgrade of the sewage discharge location.