

Licensee

WATER LICENCE INSPECTION FORM

Licensee Representative

\times	Original	
	Follow-Up	Repor

Hamlet of Resolute Bay Bhab			Bhabesh Roy		
Licence No. / Expiry	Representative's Title				
3BM-YRB1621	Municipal Engineer				
Land / Other Authorizations	Land / Other Authorizations				
Date of Inspection Inspecto					
			eith & Jonathan	Wesner	
Activities Inspected Camp Drilling	Mining	☐ Constru	ction Re	eclamation	Fuel Storage
	Disposal Facility				ruer storage
Conditions: A- Acceptable	U-Unacceptable	C-Concern	NI-Not Ins	pected	NA- Not applicable
PART:			Item No.*	Condition	Observation
					No.*
A: SCOPE, DEFINITIONS AND ENFORC	EMENT			А	
B: GENERAL CONDITIONS				С	
C: CONDITIONS APPLYING TO SECURITY				NI	
D: CONDITIONS APPLYING TO WATE	R USE			С	
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT				С	1-7
F: CONDITIONS APPLYING TO MODIF		NI			
G: CONDITIONS APPLYING TO CONS		А			
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND				С	
CONTINGENCY PLANNING					
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND				NI	
CLOSURE PLANNING					
J: CONDITIONS APPLYING TO MONIT	ORING			С	
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:	Location(s):				
☐ Yes ⊠ No	Latitude: 74° 42′ 00″ N Longitude: 94° 50′ 00″ W				
SECTION 1					
BACKGROUND Application is by the Covernment of Nunavust. Community and Covernment Services, on healf of the					
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					

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.

Inspector Statement

On July 21, 2018, A Water Licence Inspection was conducted on the Resolute Bay Sewage Disposal Facility at the Resolute Bay Airport.

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, Item 4, 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, with no writing in the Official Languages of Nunavut. (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 26, 2018 Jayson Mablick, Government of Nunavut(GN), Community Government and Services(CGS) emailed WRO Monteith a excel Spreadheet copy of the Water Consumption Report for the months of January 2018, to August 2018, listing ATCO Truck consumption numbers total of 3830138 Litres consumed. This figure should be articulated as the amount discharged into the Sewage Disposal Facility (See Photo #6).
- 7.On July 22, 2018 Bhabesh Roy, GN,CGS, Municipal Engineer, emailed WRO Monteith a copy of Resolute Water Consumption Report, Jan. to June 2018 which would appear to be submitted apart of the Annual Report submission showing 2539382 litres withdrawn for 2018 Truck Report, listing the Quantity of Sewage Waste Discharged as "SAME". This record of water consumption is the same as the one emailed to WRO Monteith on October 26, 2018 from Jayson Mablick, except the record for June is different, probably due to that months water consumption was compiled yet (See Photo # 7).

	Comments	Non-Compliance with Act or Licence	Action Required				
The following inforn	nation is a summary of th	ne Actions Required by the licensee to promote	and ensure compliance:				
-articulate how you	calculate the amount of	waste deposited into the Sewage Disposal Facili	ity.				
-label the two monit	-label the two monitoring posts as listed in the water licence						
-provide all requirer	-provide all requirements for submission of Annual Reports						
-maintain the 1 met	re free board at the Sewa	age Disposal Facility					
-repair the walls of t	the Sewage Disposal Facil	lity					
-notify WRO Monte	ith at Joseph.Monteith@	Canada .ca when decanting the Sewage Disposa	al Facility.				
-report to the Spill L	ine when overflow is obs	erved at the Sewage Disposal Facility					
-the Licensee is rem	inded to remain diligent	to prevent wastes from entering water, the env	ironment, and to adhere to				
the discharge criteri	a listed in the licence.						
SECTION 3	Comments	Non-Compliance with Act or Licence	Action Required				
Part B: Item 5 - The	Part B: Item 5 - 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.							
Part D: Item 4 - The Licensee shall ensure that a Freeboard limit of 1.0 metre, or as recommended by a qualified							
Geotechnical Engineer and approved by the Board, is maintained at all dykes and earth-fill structures associated with the							
Sewage Disposal Facilities.							
_							
	Licensee shall advise an I	nspector at least ten (IO) days prior to initiating	any decant of the Sewage				
Disposal Facility.							
Part D: Item 6 - The	Sewage Disnosal Facilitie	s shall he maintained to the satisfaction of an Ir	snector, and onerated in				
Part D: Item 6 - 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.							
active transfer at the processing and active active terrainments							

CC: Licensing Department, NWB

Bhabesh Roy, Todd MacKay

Licensee or Representative

Signature

Date



Inspector's Name

Signature

Date

Joseph Monteith

November 25, 2018

Justin, Manager of Field Operations, CIRNAC

PHOTO LOG









Description: Walls on the north side shows less than 1 metre freeboard. The sludge on the ground shows the height of walls of Sewage Disposal Facility







Photo Log # Photo 6 Resolute Bay **2018 WATER CONSUMPTION** November December January February March April May July August September October June 24 89,230 85,705 104,346 95,337 86,460 53,540 80,634 77,479 25 103,467 87,664 103,725 99,331 97,520 137,310 174,821 79,216 42,533 95,545 78,620 86,220 104,000 98,400 81,090 26 100,975 77,291 62,554 27 108,622 118,729 89,096 93,737 87,130 108,039 28 96,391 91,220 106,318 88,961 95,507 74,722 43,672 82,258 67,976 93,908 96,858 100,456 32,835 45,669 78,648 96,135 103,072 92,345 157,558 89,733 78,997 91,479 161,961 31 105,577 70,929 77,646 2,501,476 3,059,566 3,048,450 2,480,487 2,649,168 Total Imp G 2,754,307 3,029,365 2,569,090 1,871,702 1,766,215 0 Yearly Total Imp. G 25,729,826 8,029,390 12,521,355 11,371,960 13,909,093 13,858,559 13,771,796 11,679,340 11,276,542 12,043,383 8,508,944 **Total Liters** 0 **Yearly Total Liters** 116,970,362 **ATCO Truck** 741,014 335,048 418,241 615,542 Liters 312,772 626,907 479,159 571,445 0 0 Utilidor 12,208,583 10,745,053 13,168,079 13,523,511 13,353,555 11,200,181 10,705,097 11,427,841 8,508,944 8,029,390 0 Description: Review ATCO Truck on bottom. From January to July 2018



Photo Log # Photo 7

ANNUAL REPORT FOR THE HAMLET OF RESOLUTE BAY, 2018 YEAR BEING REPORTED: 2018 TRUCK

The following information is compiled pursuent to the requirements of Part B, Item 1 of Water license #3BM issued to the Hamlet of Resolute Bay, NU.

Resolute Bay

i) - iii) tabular summeries of all data generated under the "Monitoring Program"; monthly and annual quantities in cubic meters of each and all waste discharged;

Attached are quantities of water used as reported in our On Tap Water Delivery System and the estimated discharge of sewage waste based on quantities used.

Month Reported	Quantity of Water Obtained from all sources (litres)	Quantity of Sewage Waste Discharged (Estimated)
January	312,772	SAME
February	626,907	SAME
March	741,014	SAME
April	335,048	SAME
May	418,241	SAME
June	105,400	SAME
July	-	SAME
August	-	SAME
September	-	SAME
October	-	SAME
November	-	SAME
December	-	SAME
ANNUAL TOTAL	2,539,382	SAME

Note: The average consumption volume is considered equal to the discharge volume in each month because there is no meter in the intake or discharge pipe.

Description: Review Quantity of Water Obtained from all sources (Litres), and Quantity of Sewage Discharged (Estimated). January to June, 2018

