



## WATER LICENCE INSPECTION FORM

Original  
 Follow-Up Report

<b>Licensee</b>	<b>Licensee Representative</b>
Hamlet of Resolute Bay	Megan Lusty , Ken Timlin
<b>Licence No. / Expiry</b>	<b>Representative's Title</b>
3BM-YRB2126	Regional Engineer, ATCO Manager
<b>Land / Other Authorizations</b>	<b>Land / Other Authorizations</b>
<b>Date of Inspection</b>	<b>Inspector</b>
July 10, 2024	Joseph Monteith
<b>Activities Inspected</b>	

<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
<input type="checkbox"/> Roads/Hauling	<input checked="" type="checkbox"/> Other: Sewage Disposal Facility	<input type="checkbox"/> 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	1
C: CONDITIONS APPLYING TO SECURITY		NI	
D: CONDITIONS APPLYING TO WATER USE		A	6
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT		C	2-6
F: CONDITIONS APPLYING TO MODIFICATIONS		NI	
G: CONDITIONS APPLYING TO CONSTRUCTION		C	5
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING		NI	
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:	Location(s):
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N74° 42' 00" , W94° 50' 00"

**SECTION 1**     **Comments (s. \_\_)**     **Non-Compliance with Act or Licence (s. \_\_)**     **Action Required (s. \_\_)**

**BACKGROUND**  
 Application is by the Government of Nunavut – Community and Government Services (GN-CGS or the Applicant), on behalf of the Government of Nunavut – Department of Economic Development and Transportation (GN-EDT or Licensee), for the renewal, for a term of five (5) years, of Type “B” Water Licence No: 3BM-YRB1621 to allow for the continued operation of a Sewage Disposal Facility located within the municipal boundaries of the Hamlet of Resolute Bay in the Qikiqtani Region, Nunavut.

**Inspector Statement**  
 On July 10, 2024, A Water Licence Inspection was conducted by Water Resource Officer(WRO) Joseph Monteith at the Resolute Bay ATCO Sewage Disposal Facility at the Resolute Bay Airport, NU.

**General Condition**

- On November 27, 2023, Richard Dwyer, Manger of Licensing, Nunavut Water Board confirmed by email that their has been no submission of an annual report for 2021, and 2022.

**Sewage Disposal Facility**

- The Sewage Disposal Facility is a non-engineered 3 cell lagoon (photo 1 - 3).
- A yellow triangle signs were observed as per Part B: Item 5 (photo 3).



The sewage lagoon was partially empty at the time of the inspection (photo 1-3).

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 continue to appear to have gone into further decline.
6. On December 2, 2024 RES, Frontdesk (Belinda) Frontdesk.RES@atco.com emailed WRO Monteith the water usage records for the Hamlet of Resolute Bay. In the Spreadsheet, below the bordered recordings, is the ATCO Frontec record of water withdrawal. Zero Litres withdrawn in 2023. Typically this is the record of deposit into the sewage lagoon (photo 6).

Comments       Non-Compliance with Act or Licence       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
- repair the walls of the Sewage Disposal Facility
- notify WRO Monteith at Joseph.Monteith@rcaanc-cirnac.gc.ca when decanting the Sewage Disposal Facility.
- report to the Spill Line when overflow is observed at the Sewage Disposal Facility within 24 hrs of noticing occurrence
- 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**       Comments       Non-Compliance with Act or Licence       Action Required

**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 B: Item 1**

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.

**Part D: Item 5**

The Licensee shall advise an Inspector at least ten (10) days prior to initiating any decant of the Sewage Disposal Facility.

**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.

<b>Licensee or Representative</b> Ken Timlin	<b>Inspector's Name</b> Joseph Monteith
<b>Signature</b>	<b>Signature</b>
<b>Date</b>	<b>Date</b> November 27, 2024

CC: Licensing Department, NWB  
Jeremy Fraser, Manager of Field Operations, CIRNA



Photo Log

Date	Camera	Inspector
July 10, 2024	Galaxy S9	Joseph Monteith

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



Description: Discharge point for non-engineered sewage lagoon. 3 cell sewage lagoon.

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



Description: Sewage Lagoon appears to be full after spring melt.



**Photo Log**

**Location**

Photo 3

ATCO Sewage Lagoon, Resolute Bay, NU



Description: Sign does not have monitoring station label.

**Photo Log #**

**Location**

Photo 4

ATCO Sewage Lagoon, Resolute Bay, NU



Description: Site of decanting for the sewage lagoon. Signs of overflow.



Photo Log #

Location

Photo 6

ATCO Sewage Lagoon, Resolute Bay, NU

**2024 WATER CONSUMPTION**

	January	February	March	April	May	June	July	August	September	October	November	December
7	477,113	720,717	800,640	1,136,146	691,274	712,708	740,126	674,248	0	632,728	631,286	
8	749,160	838,007	0	692,587	664,481	734,565	664,157	665,824	0	602,714	623,061	
9	868,111	733,878	1,752,011	907,173	651,660	812,704	698,348	712,818	11,300,175	0	740,590	
10	874,796	780,004	0	592,588	819,770	687,678	770,557	771,735	12,729,420	0	653,064	
11	537,908	801,351	1,524,595	724,923	604,152	744,071	710,000	703,785	732,387	0	614,892	
12	740,321	809,664	632,101	999,883	801,273	758,907	722,469	636,744	777,676	571,516	630,059	
13	721,533	782,175	1,088,686	538,837	686,056	737,756	715,473	704,499	677,291	606,453	607,238	
14	814,898	752,445	781,270	715,337	719,185	1,059,715	751,971	719,863	780,086	825,899	642,020	
15		853,573	821,874	678,196	719,185	416,067	715,000	827,890	0	396,469	0	
16	1,567,240	832,739	485,374	700,861	1,555,024	751,840	707,151	1,450,059	0	633,055	0	
17	1,417,550	715,108	0	774,651	405,381	804,433	657,214		0	331,467	0	
18		710,118	1,159,366	675,434	923,295	966,480	769,368		915,567	881,118	589,431	
19	795,161	944,671	1,236,453	718,370	712,103	566,860	766,471	739,955	806,317	435,650	549,400	
20	821,869	682,027	1,080,173	749,865	727,689	830,618	626,119		413,178	0	691,261	
21	761,783	775,743	1,075,360	804,642	803,859	700,503	744,044		862,061	0	668,100	
22	674,802	795,228	1,119,616	644,632	697,399	735,750	733,188	884,027	663,826	621,890	650,840	
23	787,192	821,518	1,110,053	702,001	605,662	808,694	674,656	526,723	760,224	675,792		
24	785,176	810,884	1,032,606	773,720	714,497	714,159	685,349	680,846	712,633	583,802		
25	766,912	869,773	1,045,924	682,115	702,262	744,556	805,223		743,801	626,126		
26	790,099	958,744	1,244,055	695,719	788,398	6,722,780	598,797	1,138,414	759,637	667,800		
27	735,017	660,674	1,128,051	767,315	719,594	5,197,635	764,820	239,063	0	576,606		
28	735,297	736,057	1,128,201	694,892	741,022	667,116	708,782	943,576	0	637,479		
29	762,914	766,154	1,315,834	653,215	780,529	688,649	700,070	524,102	0	654,141		
30	831,520		1,213,500	691,344	681,112	752,057	808,756	826,767	0	599,600		
31	736,845				755,565		621,905	628,356		624,542		
<b>Total Imp G</b>	<b>80,801,147</b>	<b>22,752,495</b>	<b>26,836,007</b>	<b>24,329,910</b>	<b>22,710,139</b>	<b>32,005,100</b>	<b>175,072,700</b>	<b>77,911,368</b>	<b>38,026,073</b>	<b>15,325,781</b>	<b>12,094,872</b>	<b>0</b>
										<b>Yearly Total Imp. G</b>		<b>527,865,592</b>
<b>Total Liters</b>	<b>367,330,094</b>	<b>103,435,118</b>	<b>121,999,171</b>	<b>110,606,204</b>	<b>103,242,563</b>	<b>145,498,385</b>	<b>795,898,001</b>	<b>354,192,870</b>	<b>172,870,330</b>	<b>69,672,533</b>	<b>54,984,498</b>	<b>0</b>
										<b>Yearly Total Liters</b>		<b>2,399,729,768</b>
<b>ATCO Truck</b>												
<b>Liters</b>	<b>0</b>	<b>0</b>	<b>0</b>									

Description: ATCO recordings below the 2023 water consumption report for the Hamlet of Resolute Bay. Zero Litres recorded.