

**ANNUAL REPORT
FOR THE HAMLET OF RESOLUTE BAY AIRPORT SEWAGE LAGOON, 2016**

YEAR BEING REPORTED: 2016

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence # 3BM-YRB 1621 issued to ED&T of the Government of Nunavut.

- i) - iii) tabular summaries of all data generated under the “Monitoring Program”; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes 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 2016	259,419	Same
February 2016	625,493	Same
March 2016	499,366	Same
April 2016	796,240	Same
May 2016	452,028	Same
June 2016	435,466	Same
July 2016	518,260	Same
August 2016	534,621	Same
September 2016	430,061	Same
October 2016	291,405	Same
November 2016	268,220	Same
December 2016	240,943	Same
ANNUAL TOTAL	5,351,523	5,351,523

Note: The water consumption volume is considered equal to the discharge volume.

ANNUAL REPORT

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- iv. A summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities;

The current Water Licence # 3BM-YRB 1621 has excluded the potable water source Strip Lake and waste management facility. However, annual chemical analysis of Strip Lake raw water is kept under this licence. Airport sewage lagoon is the only facility under this Water Licence.

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- v. A list of unauthorized discharges and summary of follow-up action taken;

The Sewage Lagoon has a capacity issue. During winter season, the lagoon overflows to the wetland. The sewage becomes frozen up there and starts melting once temperature warms up. Ultimately the sewage is highly diluted and naturally treated before reaching the receiving body about 2km away.

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- vi. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;

The waste management facility next to this sewage lagoon was initially under the old water licence # NWB3YRB0308. Now this facility has its own licence and it belongs to Transport Canada (TC). TC is recently decommissioning this site.

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- vii. A summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned;

The Strip Lake water source and Truck fill station were excluded from the current Water Licence # 3BM-YRB1621. However, annual water quality monitoring program of Strip Lake raw water is still remaining under this new licence.

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- viii. Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

Additional summer sampling points have been added in the new Water Licence # 3MB-YRB 1621 to follow up in each summer.

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- ix. Updates or revisions to the approved Operation and Maintenance Plans.

The existing sewage lagoon is a non-engineered facility. An O&M manual was developed for this facility and sent to NWB. The additional sampling points will be added in this manual to operate this facility.

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x. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

GN-ED&T owns this facility. This facility will be decommissioned and truck sewage will be redirected to the new WWTP once built and commissioned which is expected in 2021/22.

xi. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

GN-ED&T is the owner and Licensee of this Facility. GN-ED&T is working closely with the Water Licence Compliance Group (WLCG) and receiving direction to move forward in order to renew or amend the water licence.

The Test Lab Results for 2016 are submitted in a separate document.