

**2017 ANNUAL REPORT
FOR THE HAMLET OF SANIKILUAQ, NUNAVUT**

YEAR BEING REPORTED: 2017

The following information is compiled pursuant to the requirements of **Part B, Item 1** of Water License # 3BM-SAN1520 issued to the Hamlet of Sanikiluaq, 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	3,199,559.00	Same
February	3,008,830.40	Same
March	3,309,863.10	Same
April	3,097,710.40	Same
May	3,685,816.60	Same
June	3,283,364.30	Same
July	2,843,739.30	Same
August	3,086,005.60	Same
September	3,379,632.70	Same
October	3,307,058.70	Same
November	3,456,054.10	Same
December	3,226,192.60	Same
Annual Total	38,883,826.80	Same

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

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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;

Sanikiluaq source water and treated water have shown higher degree of sodium concentration. RO units were installed in the Schools and in most of the Housing units. No structural modification was made on the WTP. But a storage tank has been designed for construction as the extension of the existing WTP to accommodate 20 minutes contact time in order to reduce the waiting time of the water trucks prior to delivery.

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

Sanikiluaq has a natural Sewage Lagoon to treat Community wastewater. This facility has a capacity issue and overflows to the wetland and the effluent are being further treated in the wetland prior to reaching the receiving body about 3km away.

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

No. Again no plan for the next year.

- 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;

A Secondary Water Source called Windy Lake about 10km from the Community has been discovered and water quality was monitored during the last Summer and Winter. This source is not well accessible to the Community. No decision was made yet if this Source will be considered as the Community main water source.

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

Dalhousie University has completed the field works and presented the final report on the sewage Lagoon wetland efficiency in 2017. This report has not changed the current operational strategy of the existing lagoon.

Waste sites still remain the main concerns of the Nunavut Water Board.

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

The existing three O&M manuals of the water supply, waste management and wastewater treatment facilities are being used by the Hamlet. No update or revision is required at this stage. The O&M of the water supply system will be upgraded once the new water storage tank will be built and commissioned.

- x. **ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:**

Hamlet has completed recently very extensive water sampling and testing program. The Lab test results are subject to be evaluated soon.

They have separated hazardous wastes already. Batteries are kept in the sea can for the

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future disposal out of the Community.

xi. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

Hamlet is working closely with the CGS Water Licence Compliance Group (WLCG) and receiving direction to renew or amend the Hamlet water licence.
The Hamlet has currently an active water licence

The Lab Test results for 2017 are submitted in the separate document.