

**ANNUAL REPORT
FOR THE HAMLET OF IGLOOLIK, 2021**

YEAR BEING REPORTED: 2021

The following information is compiled pursuant to the requirements of Part A, Item 1 of Water Licence # 3AM –IGL 2131 issued to the Hamlet of Igloolik.

- 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	4,844,121.1	Same
February	4,829,235.3	Same
March	5,403,465.2	Same
April	5,003,091.3	Same
May	4,524,598.9	Same
June	4,735,202.1	Same
July	5,375,973.2	Same
August	5,769,795.7	Same
September	5,322,750.7	Same
October	5,245,193.4	Same
November	4,618,398.1	Same
December	5,141,589.5	Same
ANNUAL TOTAL	60,813,414.5	

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

Major modifications and major maintenance works were not carried out on water supply system and Waste Disposal facilities during this reporting year.

Water supply system: The Water Treatment plant is using 20, 5 and 1 micron filters and these are required frequent replacement in order to maintain the water quality. A BWA was retained for few months in the community due to shortage of one micron filters in the town.

The three cells sewage lagoon is new. The Dumping chutes and berms are regularly inspected and maintained to the proper shape.

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

The leachate in the dump site is uncontrolled. But leachate testing are conducted each summer.

In the new and modified dump site, leachate will be controlled and treated prior to discharge to the environment.

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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;

No abandonment and restoration works were done during this reporting period.

The existing water Truck fill station will be abandoned including the intake. The schedule is still unknown.

The existing dump site will be abandoned and decommissioned soon after the new facility is built and commissioned. Due to Covid 19 Pandemic, these projects might be delayed.

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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 existing Waste Management facility is the concern for segregation of hazardous wastes materials, Storage, shipment to the South etc.

The New lagoon cell-1 is reported leaking at the upper side of the berm. No leakage was observed once water level inside the lagoon was dropped. The leak detection study is expected to be implemented in summer 2022.

The Dalhousie university has conducted a study on the source water quality and their report will be available in 2022.

Any other details on water use or waste disposal requested by the Board by November 1st

of the year being reported; and

Hamlet is working forward for better management of water and waste facilities in the Community.

A new flow meter and a new Fish screen are available now in the community to fix with the intake pipe which is used to extract water from the South Lake to fill the storage reservoir in every summer.

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

The O&M manuals for water supply, wastes management and wastewater treatment facilities were updated and were made available to the Water Board. Hamlet is using these manuals to operate all the water licensed facilities.

x. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Hamlet started extended sampling and testing program already. They have segregated wastes and stock piled batteries in the sea can for future disposal to the South. They are planning to fence the wastes site along the access road.

The Hamlet has a Type A water Licence for 10 yrs. period.

xi. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

Hamlet is following the GN Engineer's and CIRNAC inspector's advice to operate the water licensed facilities.

Fish Lake is considered as the Hamlet's secondary water source and its water quality is being monitored along with the South Lake water.

Hamlet submits their annual report on time.

The Test Lab Results for 2021 are submitted in a separate document.