

**ANNUAL REPORT  
FOR THE HAMLET OF IGLOOLIK, 2019**

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**YEAR BEING REPORTED: 2019**

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence # 3BM –IGL1520 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...?

<b>Month Reported</b>	<b>Quantity of Water Obtained from all sources (litres)</b>	<b>Quantity of Sewage Waste Discharged (Estimated)</b>
<b>January</b>	<b>2,837,427.30</b>	Same
<b>February</b>	<b>3,931,041.60</b>	Same
<b>March</b>	<b>4,769,522.30</b>	Same
<b>April</b>	<b>4,286,410.50</b>	Same
<b>May</b>	<b>4,707,068.80</b>	Same
<b>June</b>	<b>4,318,813.66</b>	Same
<b>July</b>	<b>4,406,425.20</b>	Same
<b>August</b>	<b>4,659,625.10</b>	Same
<b>September</b>	<b>4,573,692.50</b>	Same
<b>October</b>	<b>5,132,322.00</b>	Same
<b>November</b>	<b>4,496,254.60</b>	Same
<b>December</b>	<b>4,867,090.30</b>	Same
<b>ANNUAL TOTAL</b>	<b>52,985,694.20</b>	

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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The water storage reservoir was expanded during the summer 2017. During construction, the reservoir was made empty. Once the construction was completed, it was filled up. The estimated quantity of water required was about 126,440,000 litres.

Therefore, the water consumption/extraction volume in 2019 was recorded 52,985,694.20 litres. It means  $(126,440,000 - 52,985,684.20) = 73,454,315.80$  litres was remaining in the Storage reservoir untouched. Considering 52,985,684.20 annual consumption/extraction volume, average volume stands 145.20 cubic meters per day extraction.

- 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;
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No major modification works was carried this year. However, the Intake pipe line from the South Lake to the Water storage Reservoir, Water storage Reservoir, three sewage lagoon cells were maintained properly.

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- v. A list of unauthorized discharges and summary of follow-up action taken;  
Leachate from the landfill site is considered unauthorized discharge. Waiting for a new facility to remediate this issue.
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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;
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No abandonment and restoration works were carried out. However, the water intake line and the old WTFS have to be decommissioned. Schedule is still unknown.

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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;
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The existing Waste Management facility is the concern for segregation of hazardous materials, Storage, burning etc. A consultant has just completed the Feasibility study on the wastes sites. The document is under GN review.

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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
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Hamlet is still waiting to install a flow meter and a Fish screen with the intake pipe

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which is used to extract water from the South Lake in every summer.

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- ix. Updates or revisions to the approved Operation and Maintenance Plans.
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Yes, the O&M manuals of the Sewage Lagoon and the Water supply system have been upgraded and modified as required to operate these facilities. Currently these facilities were commissioned and tested to see how best they are functioning.

These manuals are available and attached.

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- x. **ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:**
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They will continue using the same accredited Lab in Ottawa for Chemical analysis of Water, Wastewater and Leachate.

The new O&M manuals are available to operate these facilities.

Hamlet is working forward to submit their Water licence to NWB for renewal within a Week, which will be expired on March 30,2020.

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- xi. **FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:**
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Hamlet is following 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 monitored along with the South Lake

The feasibility study was completed. This is under GN's final review process.

Hamlet will be submitting the renewal application of their water licence in next 7 days.

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The Test Lab Results for 2019 are submitted in a separate document.