

**ANNUAL REPORT  
FOR THE HAMLET OF RESOLUTE BAY UTILIDOR, 2016**

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**YEAR BEING REPORTED: 2016**

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence # 3BM-RUT1520 issued to 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.

<b>Month Reported</b>	<b>Quantity of Water Obtained from all sources (litres)</b>	<b>Quantity of Sewage Waste Discharged (Estimated)</b>
<b>January 2016</b>	<b>34,207,920</b>	Same
<b>February 2016</b>	<b>37,230,836</b>	Same
<b>March 2016</b>	<b>41,241,155</b>	Same
<b>April 2016</b>	<b>41,425,618</b>	Same
<b>May 2016</b>	<b>43,924,973</b>	Same
<b>June 2016</b>	<b>35,905,243</b>	Same
<b>July 2016</b>	<b>25,981,716</b>	Same
<b>August 2016</b>	<b>8,393,933</b>	Same
<b>September 2016</b>	<b>11,909,664</b>	Same
<b>October 2016</b>	<b>14,566,473</b>	Same
<b>November 2016</b>	<b>14,362,712</b>	Same
<b>December 2016</b>	<b>17,288,777</b>	Same
<b>ANNUAL TOTAL</b>	<b>326,439,020</b>	<b>326,439,020</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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- 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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The entire Utilidor system is in the process of rehabilitation. The Phase 1, the liner systems for water and sewer of the main Utilidor facility were replaced in last summer.

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

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During construction season, flooding took place at the lower topography of the town, but it was proven that it was not coming from construction and the new system. Pressure test was conducted and no pressure was lost in the surrounding pipes. This indicated that there was no leak in the new system. Also consumption of water at lake dropped during the course of the flood. This indicated that the new system and construction had not failed. However, it was concluded that the source of water was highly likely from just Snow and ice melts. The contractor had then installed few new culverts at ditch where Flooding was noted. No water accumulation was noted after.

Also in absence of a WWTP, sewage is highly diluted and ran into the sea without any further treatment.

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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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All the fire hydrants and Valves were replaced along with the liner systems.  
Once the new WWTP is built, the Macerator unit will be abandoned and replaced.

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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 Design for upgrading the Pump station at Char Lake and WTP at Signal Hill is in Progress. The replacement of 2km intake water line from the pump station to WTP is expected to be replaced this summer.

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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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The Licensee shall conduct a site specific study for the determination of a Fecal Coliform limit for Sewage Disposal Facility Effluent that maintains the quality of the Receiving waters within reasonable and acceptable limits and submit a Report of the site

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Specific study to the Board for approval by December 1, 2015. The study shall take into Considerations the receiving water quality objectives provided in the *Guidelines for the discharge of Treated Municipal Wastewater in the Northwest Territories*, 1992 and the Report shall provide recommended fecal coliform limits for inclusion in Part D, Items 2 and 3.

The sewer line was under construction at the end of the last summer season. As a result, continuous sewage testing was not possible. However, Sewage effluent flow will be monitored this summer in order to establish a numerical value for E-coli at the end of 2017.

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

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The Phase 1 construction was complete. The O&M manual will be updated once the Phase 2 construction will complete.

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

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GN-CGS contracted out this facility to ATCO. They are operating this system and maintaining water quality for the safety of the public health and to comply with the requirements of the Water Licence.

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xi. **FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:**

closely GN-CGS is the owner and Licensee of the Utilidor system. GN-CGS is working with the Water Licence Compliance Group (WLCG) and receiving direction to move forward in order to renew or amend the Utilidor water licence.

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