

**ANNUAL REPORT  
FOR THE HAMLET OF RESOLUTE UTILIDOR SYSTEM, 2014**

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**YEAR BEING REPORTED: 2014**

The following information is compiled pursuant to the requirements of **Part B, Item 1** of Water Licence # 3BM-RUT1012 issued to the Hamlet of Resolute Bay.

- 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 2014</b>	7,777,125	Same
<b>February 2014</b>	7,378,056	Same
<b>March 2014</b>	8,322,110	Same
<b>April 2014</b>	8,744,584	Same
<b>May 2014</b>	9,472,152	Same
<b>June 2014</b>	9,259,125	Same
<b>July 2014</b>	10,127,846	Same
<b>August 2014</b>	10,785,882	Same
<b>September 2014</b>	9,880,090	Same
<b>October 2014</b>	9,756,434	Same
<b>November 2014</b>	9,188,730	Same
<b>December 2014</b>	9,510,180	Same
<b>ANNUAL TOTAL</b>	<b>110,202,314</b>	<b>110,202,312</b>

Note: The average extraction volume is considered equal to the discharge volume in each month because there is no meter in the sewage 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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This licence is mainly for Utilidor system which consists of a Char Lake Pump station, Signal Hill water treatment plant, about 500m intake service line from pump station to water treatment plant, water distribution system, sewer collection and disposal system. Minor repairs and maintenance works were carried out during the reporting year to keep the system running.

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

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There is no wastewater treatment plant in this system. Sewage is diluted significantly prior to open discharge into the sea all the time everyday throughout the year. This volume is roughly estimated as the same volume of annual extraction of water from the Char Lake.

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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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The entire linear system for water and sewer pipe lines are planned to get replaced totally. The contractor is on site. Piping materials were transported to the site last year sea lift. The construction is expected at the beginning of summer 2015.

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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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To satisfy the demand of NWB, a Hydrology study on the Char lake was conducted by the Engineering consulting firm exp Services Inc. This study was based on 30 yrs. Community demand versus supply in the Char Lake. The study report was submitted to NWB as the requirement to renew the Utilidor Water 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

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Wastewater treatment is the major concern to NWB and AANDC. Unauthorized discharge of untreated sewage is questionable.

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

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The system consists of a pump station, water treatment plant (WTP), about 500m service line from pump station to WTP and the Utilidor system. Again, Utilidor system consists of Water distribution and sewer lines. The entire process is being operated using the existing O&M manuals. The manual of the utilidor system will be upgraded once construction is complete.

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### **ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:**

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GN-CGS is working with NWB for water licence compliancy. GN-CGS is maintaining extended sampling and testing program in order to meet the requirements of the monitoring program established in the Licence. GN-CGS is planning to maintain report card in 2015 to productively manage and operate the entire system.

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### **FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:**

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GN –CGS is the licensee of the Utilidor system. CGS is working closely with the recently formed Water Licence Compliance Group (WLCG) to deal with inspector's concerns of the water licence compliancy. Monitoring signs were installed last year summer. The Facility sign will be installed once construction is complete.

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Lab Test Results for Chemical analysis of water and wastewater in 2014 are submitted in the separate document.



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