

ANNUAL REPORT FOR THE HAMLET OF RESOLUTE BAY (AIRPORT), 2013

YEAR BEING REPORTED: 2013

The following information is compiled pursuant to the requirements of **Part B, Item 1** of Water License # NWB 3YRB 0308 (Airport) 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.

Month Reported	Quantity of Water Obtained from (Char Lake only) (Litres) Estimated		Quantity of Sewage Waste Discharged (Truck Discharge volume only) Litres (Estimated)
January 2013	7,559,542	200,000	200,000
February 2013	6,845,970	350,128	350,128
March 2013	8,825,572	509,823	509,823
April 2013	7,007,084	815,983	815,983
May 2013	7,114,714	567,774	567,774
June 2013	7,029,067	375,126	375,126
July 2013	8,654,269	568,936	568,936
August 2013	7,181,824	685,178	685,178
September 2013	6,712,087	366,632	366,632
October 2013	6,712,087	163,204	163,113
November 2013	7,445,601	199,113	199,113
December 2013	7,535,074	200,210	200,210
ANNUAL TOTAL	89,443,503 (Total extraction	5,002,107 (trucking water)	5,002,107 (trucking sewage)

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Note: The Char Lake is the only Community potable water source from where water is being extracted by pumping system. Water is being treated by the Water Treatment Plant located at Signal Hill. From this Treatment Plant, treated water is being delivered to Airport and its associated facilities by trucking system only. Wastewater is also being collected from these facilities and dumped into the Airport Sewage lagoon for natural treatment. There is no meter existing at the discharge pipe of the Sewage Truck. Therefore the annual discharge volume is considered equal to the annual consumption volume 5,002,107.00 L by the Airport and its associated facilities.

- 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;

Water extraction and treatment are the part of the Utilidor system under the licence # 3BM-RUT 1012. This facility is licensed to CGS and being maintained by a CGS contractor ATCO on daily basis. ATCO is also delivering treated water to Airport and its associated facilities by Water Trucks. Also they are collecting sewage from these facilities by a Sewage truck and dump into the Airport Sewage Lagoon for natural treatment. No modification or maintenance works was carried out on the sewage Lagoon under this licence during the reporting period.

- v. a list of unauthorized discharges and summary of follow-up action taken;
Lagoon effluent gets final treatment in the wetlands prior merging into the sea water.
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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;

The Airport Sewage Lagoon will be abandoned and restored once the new WWTP is built and commissioned. At that very time, entire liquid wastes of the community will be treated only in the WWTP. No abandonment and restoration work was carried out during the reporting period.

- 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 studies on Nunavut wide solid waste management was completed recently by Arktis Solutions Inc. The new guidelines has been developed and accepted by CGS. The entire solid wastes of the Community will be dealt under the same guidelines once the new waste management facility is built and commissioned.

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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

Airport Sewage Lagoon and present waste management are the concerns of the Nunavut Water Board. Airport Sewage Lagoon was originally licensed to ED&T. Currently this was transferred to CGS and CGS is the current Licensee.

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

O&M manual will be prepared once the entire utilidor system is upgraded including Construction of the new WWTP. O&M for solid waste site will be ready once it is built and ready to commission.

x. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

CGS is working with the NWB to resolve issues and concerns of the Water Licence.

xi. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

A consulting firm Arktis Solutions Inc. is engaged to assist CGS to address AANDC Inspector's concern on waste management. CGS has engaged a contractor ATCO for extended sampling and testing program for water, wastewater and leachate coming out from the landfill site for water licence compliancy. exp services Inc. is the consultant of Utilidor system. Final O&M manual of Utilidor system including WWTP will be prepared by exp.

The Lab Test Results for 2013 are as follows:



B13-21854_R.pdf



B13-21846_R.pdf



B13-28167_R.pdf



B13-28163_R.pdf