

March 28, 2013

Nunavut Water Board

PO Box 119

Gjoa Haven, Nunavut

X0B 1J0

Attention: Phyllis Beaulieu, Manager of Licensing

RE: "Annual Reports 2006 and 2007"- Hamlet of Gjoa Haven, NU (Licence No. NWB3-GJO-0409)

Dear Ms. Beaulieu,

The Hamlet of Gjoa Haven is pleased to submit to Nunavut Water Board this attached file of "Annual Report 2006 and 2007" of water uses and sewage solid waste disposal as required and directed under the compliance of use in Water Licence No NWB-3GJO-0409. Copy of AANDC report is attached herewith for your information.

With the help of Government of Nunavut through Community and Government Services, it has undertaken a comprehensive waste management and monitoring program which has led to improvement of sewage and solid waste site facilities, wetland and effluent discharge. Such monitoring program for water, sewage and solid waste are in effect with the help of CGS and EXP consultants.

We realize that these reports are submitting currently in a later date from original obligation, however, these are in compliance with outstanding items as notified in AANDC report (attached here). We summarize those conditions and requirements outlined in Part B through part H in Water Licence as below:

Part B: General conditions

Tabular Form of annual water consumption and sewage disposal are duly filled-up. Note that quantities were measured on daily basis of water distribution and sewage disposal.

No device Meter was used for volume measurement, however, truck-fill measurement was precise in taking the volume of water, sewage and solid waste.

Part C: Water Use:

All water obtained from the Swan Lake water supply as the approved source and annual quantity within the allowable limit of 62,000 cubic metres.

Part D: Waste Disposal

All sewage and solid waste disposal carried into the prescribed locations of sewage Lagoon and waste site facilities using hamlet operated trucks and operators.

Part E-G: Modification, construction, operation, abandonment and restoration

Upgrading to water facilities carried out including treatment plant, remote monitoring device, heat exchange, water transmission to treatment and intake pump house.


Improvement for sewage disposal and upgrading of lagoon berm has already acknowledged to the Board and approved with regulatory requirements.

Part H: Monitoring Program

Annual monitoring of sewage and solid waste effluent has been carried during the summer and fall. Chlorine Logs and Bacterial test carried on water samples for daily and monthly fashion.

We hope that Nunavut Water Board will find these reports valuable in operating the Water Licence for water, sewage and solid waste facility.

Sincerely,

 March 28, 2013

Shah Alam, P. Eng.

Municipal Planning Engineer

Community & Government Services

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Cambridge Bay, NU X0B 0C0

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(On behalf of Senior Administrative Officer),

Hamlet of Gjoa Haven, Nunavut

ANNUAL REPORT

YEAR BEING REPORTED: 2007

The following information is compiled pursuant to the requirements of **Part B, Item 1** of Water Licence # **NWB3GJO-0409** issued to the **Gjoa Haven**

- 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
January	2,865,480.80	Same
February	2,553,427.00	Same
March	2,869,387.10	Same
April	2,625,060.70	Same
May	2,577,504.60	Same
June	2,339,796.40	Same
July	2,424,782.80	Same
August	2,763,035.60	Same
September	2,685,848.00	Same
October	2,824,335.10	Same
November	2,781,506.10	Same
December	2,650,982.80	Same
ANNUAL TOTAL	31,961,147.00	Same

ANNUAL REPORT

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;

- The buried supply line has frozen up due to severe winter blizzard and shut-off the raw water supply to treatment plant. Alternate facility of water supply using truck-fill at intake pump house and chlorinated has taken into operation. This system has continued until the summer when line thaw and replacement of frozen segments. This alternate water supply in compliance with the Drinking Water Regulation since turbidity level within the limit.
 - The repair and replacement of buried line comprised with heat tracer recirculation line as a back-up thaw system for the risk of line frozen again in future.
-

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

- No unauthorized discharged reported.
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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;

- Restoration of frozen water line after replacement of reported segments and accessories.
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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;

- Plan for facility assessment of existing sewage system and feasibility study for a new requirement by an engineering consultant in regards to INAC Report 2006 which has indicated spilling effluent past the MSW site and contamination of surrounding area. Also an analysis of community sewage needs over the next 25 years with sufficient capacity to meet the need. Annual sampling of effluent from stations on wetland as suggested by INAC report.
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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

None

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

None

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Dillon Consultants has been working in helping the water and sewage system in compliance with water licensing.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

N/A

ANNUAL REPORT

YEAR BEING REPORTED: 2006

The following information is compiled pursuant to the requirements of **Part B, Item 1** of Water Licence # **NWB3GJO-0409** issued to the **Gjoa Haven**

- 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
January	2,642,322.20	Same
February	2,318,737.20	Same
March	2,733,335.40	Same
April	2,374,773.10	Same
May	2,535,673.90	Same
June	2,332,067.20	Same
July	2,511,663.50	Same
August	2,783,091.10	Same
September	2,669,337.00	Same
October	2,822,463.60	Same
November	2,768,645.80	Same
December	2,735,437.10	Same
ANNUAL TOTAL	31,227,547.10	Same

ANNUAL REPORT

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;

- New water intake pump hose, supply line to new treatment plant with pump shake facilitating for water truck-fill in operation. This new system replaced the existing intake system and added the treatment facilities followed by disinfection before truck-fill.

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

- No unauthorized discharge listed during this year. Reported hydraulic oil leak onto ice previous year at the water has been cleaned up and no report of oil mixing in water received.

vi. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;

- Abandonment plan for existing water system and pump house.

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;

- INAC Report 2006, indicated spilling effluent past the MSW (lagoon) site and contamination of surrounding area, and suggested to perform an analysis of projected community sewage needs over the next 25 years and design sufficient capacity to meet the need. From engineering study, the wetland seemed to be doing a good job of polishing the wastewater.

Viii. any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

None

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

None

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Dillon Consultants has been working in helping water and sewage system in compliance with water licensing. Such study and upgrading are in compliance with standard engineering practices for Sewage Lagoons in the north and meeting criteria for effluent quality set by Environment Canada and DFO

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

N/A