

Hamlet of Paulatuk

**Municipal Questionnaire for
Water License Application**

**Renewal of Water License
N7L3-1619**

SECTION A – GENERAL

1. Date: August 12, 2004

2. Applicant:

Hamlet of Paulatuk
PO Box 98
Paulatuk, NT
X0E 1N0
(867) 580-3531 (telephone)
(867) 580-3703 (fax)

3. Contacts:

Tom Caines
Senior Administrative Officer
(867) 580-3531 (telephone)
(867) 580-3703 (fax)

4. Community Status:

Hamlet of Paulatuk

5. Population (according to most recent census results)

Paulatuk's population, according to the 2001 Census, was 286.

The NWT Bureaus of Statistics also undertook a population survey in 2002, and their current population estimate for Paulatuk is 319.

Estimated Growth Rate over next five years:

The NWT Bureaus of Statistics estimates that Paulatuk's population will be 342 by the year 2009. Based on their current population estimate of 319, this represents a potential increase of approximately 7.2%.

6. Indicate the Status of the municipality's license on the date of application:

This is an Application for Renewal of Water License #N7L3-1619, recently extended and now set to expire on October 30, 2004.

7. Has any baseline data been collected for the main water bodies in the area?

Yes, baseline water quality testing is done.

If yes, please attach all data gathered on the physical, biological and chemical characteristics at each sampling location.

See Appendix A for recent data on water quality testing done.

Attach a summary of program details indicating sampling locations, description of waste at each location, sampling frequency, and parameters analysed.

See Appendix B for program details.

Include an outline of Quality Assurance/Quality Control methods being applied to sampling, preservation and analysis within the program.

See Appendix C for QA/QC methods and/or accreditation from the labs that are used for water quality sample analysis.

8. Has any baseline data collection and evaluation been undertaken with respect to the various biophysical components of the environment potentially affected by the project (eg wildlife, soils, air quality), in addition to water related information requested in this questionnaire?

As far as it is known, no baseline data has been collected for these components.

9. Attach detailed maps which show the relative locations of the:

- a. raw water intake**
- b. water treatment facilities**
- c. fuel & chemical storage**
- d. sewage treatment facilities**
- e. wastewater treatment area and discharge outlets**
- f. solid waste disposal areas and drainage patterns**
- g. hazardous waste disposal area**
- h. transportation access routes**
- i. existing water bodies/courses and any changes to these water bodies/courses which have or may occur as a result of water use or waste disposal facilities, locations of environmental monitoring sites**

See diagrams, maps, and plans, etc. in Appendix D as well as photos in Appendix E that detail this information.

10. Attach detailed scale plan drawing(s) of the proposed (or present) sewage treatment system. The drawing(s) must be stamped by an engineer registered in the NWT and include the following:

- a. details of pond size and elevation**
- b. precise details of all retaining structures (dimensions, materials of construction, etc.)**
- c. details of the drainage basin, and existing and proposed drainage modifications**
- d. details of all decant, siphon mechanisms etc., including sewage treatment facilities**
- e. details regarding direction and route followed by wastewater flow from the area**
- f. indications of the distance to nearby major watercourses, and fish bearing waters**
- g. location and construction of liners**
- h. leachate and groundwater collection systems, and**
- i. control structures**

N/A – The sewage lagoon is a natural lake and can be seen in the maps in Appendix D as well as photos in Appendix E.

11. Attach detailed scale plan drawings of the proposed (or present) solid waste disposal area. The drawings must include the following:

- a. precise details of all retaining structures (dimensions, materials of construction, etc.)**
- b. details of the drainage basin, and existing and proposed drainage modifications**
- c. details regarding direction and route followed by waste water flow from the area**
- d. indications of the distance to nearby major watercourses, and fish bearing waters**
- e. all sources of seepage presently encountered in the vicinity of these areas**
- f. the volume of each seepage flow (m^3 /day), and**
- g. the direction of each flow**

See Appendix D for maps and Appendix E for photos of the location and details of the solid waste disposal site.

12. Describe the present or proposed contingency plan which will be used for each portion of the waste control system in the event it fails to operate properly.

A second truck is available in the event that the first truck becomes inoperable. In this way, no interruption of service will occur.

13. Attach the present or proposed spill contingency plan which will be employed in case a spill of hazardous materials occurs. Describe courses of action, mitigative methods and equipment available for use.

The Hamlet will report any spills, if they occur, to the Territorial 24 Hour Spill Report Line. Plans for possible spills of hazardous materials include containment and cleanup as soon as possible, as well as notification of appropriate government departments. Heavy equipment belonging to the Hamlet would aid in the containment. The local fire department and Hamlet staff would carry out these procedures.