



P.O. Box 119

GJOA HAVEN, NU X0B 1J0

ᓄᓇᓂᓪ ᐃᐭᓕᓂᓪᓃᓪ ᑲᓂᐭᓪᓴᓪ

TEL: (867) 360-6338

NUNAVUT WATER BOARD

FAX: (867) 360-6369

NUNAVUT IMALIRIYIN KATIMAYINGI

January 17, 2005

File No: NWB31QA

Mr. Brad Sokach, P. Eng.  
City of Iqaluit  
P.O. Box 460  
Iqaluit, NU X0A 0H0  
Email: [bsokach@city.iqaluit.nu.ca](mailto:bsokach@city.iqaluit.nu.ca)

Subject: Nunavut Water Board response to the City of Iqaluit's November 30<sup>th</sup>, 2004 submission of information

Dear Mr. Sokach,

The Nunavut Water Board ("NWB" or "Board") acknowledges receipt of several documents submitted by the City of Iqaluit (the "City") on November 30<sup>th</sup>, 2004. This latest submission represents a partial fulfillment of the requirements of the NWB outlined in a letter to the City dated September 27, 2004.

The documents submitted on November 30, 2004 have been placed for public access on the NWB's FTP site at:

<http://ftp.nunavut.ca/nwb/NWB3%20MUNICIPAL/NWB31QA/Additional%20Water%20License%20Info%20December%202,%202004/>

#### **Part I – Information received**

The information submitted by the City on November 30, 2004 contains the following:

1. A revised application form
  - The form now reflects a request for a 5-year water license;
2. Completed municipal questionnaire
  - Section VIII-Public Health (Monitoring Program) has been completed
  - Section IX-Technical Information has been completed;
3. Energy dissipation areas plans
  - Drawings, prepared by Trow Associates Ltd., depicting the water outfall pipe in relation to the observed High Water Mark ("HWM");
4. The City of Iqaluit Spill Contingency Plan (updated November, 2004);
5. Iqaluit Water Treatment Plant As-Built Record Drawings
  - Drawings, prepared by Earth Tech (Canada) Inc., dated 2004;
6. Iqaluit Wastewater Treatment Plant – Conversion and Expansion (Issued for 95% Review)
  - Volume 1 of 2: Division 1 to Division 14, prepared by Earth Tech (Canada) Inc., dated 2004;
  - Volume 2 of 2: Division 14 to 17, prepared by Earth Tech (Canada) Inc., dated 2004;

7. Wastewater Treatment Plant (WWTP) design engineering plans
  - Drawings, completed by Earth Tech (Canada) Inc., for the conversion and expansion of the WWTP (95% client review), dated 2004;
8. A revised schedule for the construction and commissioning of the Iqaluit WWTP;
9. Operations and Maintenance plan for the Sewage Disposal Lagoon;
10. The Table of Contents for an Abandonment and Restoration Plan of the North 40 dumpsite;
11. Landfill Sampling Results
  - Analysis of landfill leachate that was obtained by the City in July, 2004;
12. Memo on Sludge Stabilization
  - Memo from Glenn Prosko to Rick Bitcon, Earth Tech, regarding the stability issues and the potential toxicity of sewage sludge;
13. Engineering plans showing the back-up generator;
  - Located in file entitled, PLANS and PFD'S ELEC PLAN (E-2)
14. A summary of repairs undertaken on the Lake Geraldine Dam since the last Dam Safety Review;
15. Lagoon Reconstruction and Drainage Improvements Record Drawings
  - Drawings, completed by UMA Engineering Ltd., dated 1991;
16. Topographical Map of the Sewage Disposal Lagoon
  - Drawing, completed by North Tech, dated 2003;
17. WWTP outfall engineering plans
  - Drawings, completed by Trow Associates, that depict the sewage outfall pipe design;
18. Lake Geraldine Dam as-built engineering plans
  - Drawings, completed by the Department of National Defense, dated 1962
  - Drawings, completed by Oliver Mangione McCalla & Associates, dated 1985, of modifications to the Lake Geraldine Dam
  - Drawings, completed by Oliver Mangione McCalla & Associates, dated 1995, of modifications to the Lake Geraldine Dam; and
19. WWTP design engineering plans
  - Drawings, completed by Earth Tech (Canada) Inc. for the conversion and expansion of the WWTP (95% client review), dated 2004.

## **Part II – Information not yet received**

The following information required by the NWB has not yet been received and is requested to be submitted to the Board in a timely fashion:

1. The terms of reference for the preparation of an Operations and Maintenance Plan for the Solid Waste Disposal Facility;
2. A plan describing what monitoring is proposed for the Solid Waste Disposal Facility, the current Sewage Disposal Lagoon and the proposed Sewage Treatment Plant;
3. The terms of reference for the preparation of a plan to address the management of sludge to be produced by the proposed Sewage Treatment Plant;
4. Details of any proposed water conservation measures and/or public awareness programs aiming at reducing water consumption;
5. The results of recent analysis of effluent discharged from the current Sewage Disposal Lagoon;
6. An summary of repairs completed on the Sewage Disposal Lagoon since the *Lagoon Safety Review*;
7. Documentation supporting visual, piezometric, freeboard level and detailed geotechnical

- and hydrological monitoring results of the Sewage Disposal Lagoon undertaken since the completion of the *Lagoon Safety Review*;
8. Information regarding the proposed WWTP bypass, including the location and capacity of the emergency sewage storage system;
  9. Details on how the High Water Mark (HWM) has been determined;
  10. The Operations and Maintenance Manual and the Emergency Preparedness Manual for the Lake Geraldine Water Supply facility;
  11. A contingency plan should the proposed WWTP not be commissioned as scheduled; and
  12. A report on the status of the implementation of the *Sewage Lift Station Spill Contingency Plan* with specific reference to training requirements.

The NWB will provide further procedural directions, including a notice of hearing which shall not be less than sixty days following a decision of the NWB as to the completeness of the application, once all outstanding information requests have been submitted to its satisfaction. Meanwhile, we ask interested persons to begin their review of the documents submitted to date. While the NWB will make a decision on this water license application based on its merits and the evidence heard during the hearing, we would like to encourage interested persons to exchange questions with the City as necessary in order to resolve technical issues and simplify the disposition of the matter.

Please contact the undersigned in writing should you have any questions or concerns.

Sincerely,

***Original Signed By:***

Philippe di Pizzo  
Executive Director

cc. Distribution List