

## **Executive Summary**

### **City of Iqaluit Water License Renewal Application**

The City of Iqaluit (City) is submitting an Application for Water License Renewal for its Type “A” Water License (3AM-IQA0611) because no changes to water use or waste disposal previously authorized are being requested at this time. As per the terms of this license, the City wishes to continue:

- Water use from Lake Geraldine to a maximum of 1,100,000 m<sup>3</sup>/year,
- Solid waste management at the West 40 Landfill, and
- Wastewater management at the West 40 Wastewater Treatment Plant and backup Sewage Lagoon.

Over the term of its last license, the City has invested considerable time and resources to move towards achieving compliance with its License:

- The Lake Geraldine Dam Safety Review was completed in 2006;
- Dam Safety Inspections (DSI) were completed on Lake Geraldine Dam in 2009, 2010, 2011, 2012;
- Work was undertaken to address DSI all recommendations:
  - An underwater survey of dam completed was in 2010,
  - A dam grouting program was completed in 2011 to address observed leakage areas identified in 2009 DSI,
  - The Operation and Safety Manual, Logbook and Permanent File was updated in 2011,
  - The Lake Geraldine Emergency Preparedness Plan is currently under development and is expected to be complete in early 2013, and
  - The North Berm Repairs Project is scheduled to be complete in 2012 to address the related 2011 DSI recommendation;
- Dam Safety Inspections of the Sewage Lagoon were completed in 2006, 2009, 2011;
- A Technical Overview of 2005 Secondary Sewage Treatment Design was completed in 2011 to determine the work required to update the design to meet current needs and regulatory requirements;
- A funding application for priority municipal infrastructure projects has been submitted to the Government of Nunavut (includes upgrading the Wastewater Treatment Plant, which is currently on hold due to funding constraints);
- Sewage Lift Stations #1 and #2 were completely renovated in 2006 and 2011, respectively (the new control system and backup generator reduce the likelihood of a sewage spill at these new facilities);
- Water management improvements at the West 40 Landfill were completed in 2006 and 2011;
- A Water Management and Treatment Options Report for the West 40 Landfill was completed in 2011;
- A Sewage Sludge Management Composting Pilot Project was undertaken in 2006; and
- The Sludge Management Operation and Maintenance Manual completed in 2006.

Moving forward, the City remains committed to continuing its work towards compliance. Currently, the following work is underway:

- The Iqaluit Waste Management Project, which includes:
  - the development of a new Solid Waste Management Plan,
  - the identification of a new solid waste management site, and
  - the development of a Decommissioning Plan for the West 40 Landfill;
- The development of the Lake Geraldine Dam Emergency Preparedness Plan (to be complete in early 2013);
- The development of a Water Balance (contract to be awarded in October 2012); and,
- The development of a Supplementary Water Supply Plan and Preliminary Design (contract to be awarded in October 2012).

As indicated above, the City is currently in the planning phase for new solid waste management facilities and a supplementary water supply. Once the necessary information is ready, the City plans on submitting the required Application for Water License Amendments.