



City of Iqaluit

Solid Waste Management Project

SUPPORTING SUBMISSION FOR APPLICATION TO AMEND TYPE A WATER LICENCE 3AM-IQA1626

April 2020

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1. INTRODUCTION

Purpose of this Document

The purpose of this document is to supplement the Application to Amend Type A Water Licence 3AM-IQA1626 for the City of Iqaluit pertaining to the construction and operation of new solid waste facilities. This document should be read in conjunction with and constitutes part of that application.

2. MINIMUM APPLICATION REQUIREMENTS

As a part of the application package, following documents are supplied to Nunavut Water Board for the consideration of the amendment application

- ✓ Completed application for Water Licence Amendment Form
- ✓ Supporting document submission that satisfies the requirements of the Supplemental Information Guidelines (SIG) for Municipal Development that include the following plans, reports and design.
- ✓ Executive Summary in English
- ✓ Translated executive summary in Inuktitut.
- ✓ Application fee. (to be provided at a later date by phone to the NWB)

3. DETAILS OF AMENDMENT APPLICATION

Purpose of Application for 2020 Approval to construction

The City of Iqaluit (City) currently manages its waste at the West 40 Landfill. This facility is at capacity and a new facility is needed as soon as possible. Both the City's Water License and General Plan require that the City complete a new Solid Waste Management Plan to address the City's current and future solid waste management needs. Based on detailed analysis and community feedback, a new solid waste management site and program have been selected.

The City is currently pursuing an amendment to its water licence to allow the City start constructing the new solid waste management facilities in year 2020. The application has currently passed the NPC and NIRB screening processes. Based on the regulatory review process expected, the City is seeking for immediate approval for the site preparation for the waste transfer station and the new landfill.

Project Description

The City of Iqaluit (City) is in the process of implementing its Solid Waste Management Strategy to service their near and long-term (75 years) municipal solid waste (MSW) disposal requirements. Founded on a previously completed conceptual design and facility siting exercise (see Figure 1-1), key elements of the project include a solid waste transfer station (WTS) within the immediate urban area of the City, where residential and commercial waste will be hauled to, processed, and compacted in bales or in the case of waste wood and cardboard, shredded and pelletized for use as a fuel source for an on-site biomass boiler. Tires, metals, and some construction and demolition (C&D) wastes will also be shredded and/or baled for landfilling or transported south for recycling. The resulting solid waste bales and possibly a smaller amount of unbaled C&D waste will be trucked to an engineered balefill / landfill site (Landfill) located approximately 6 km from the WTS. The vehicles transferring the waste bales will access the road leading to the Landfill from the WTS, to avoid having the transfer vehicle travel through the City. Other planned features of the WTS include a public drop off area for household hazardous wastes (HHW) and a vehicle logger/compactor unit; in both instances, allowing for the preparation of waste materials prior to shipping to approved management facilities in the south.

An Environmental Management framework to assess, track and document the project's environmental compliance requirements and for the systematic management of environmental risks designed to implement the environmental protection and mitigation measures for the construction, operation and closure phases.

The project has cleared the Nunavut Planning Commission and Nunavut Impact Review Board screening processes.

The access road that will be used to reach the new Landfill has been approved for construction by the board. It is anticipated that the construction of the road will be included in the new Landfill and WTS Contractor's scope of work.

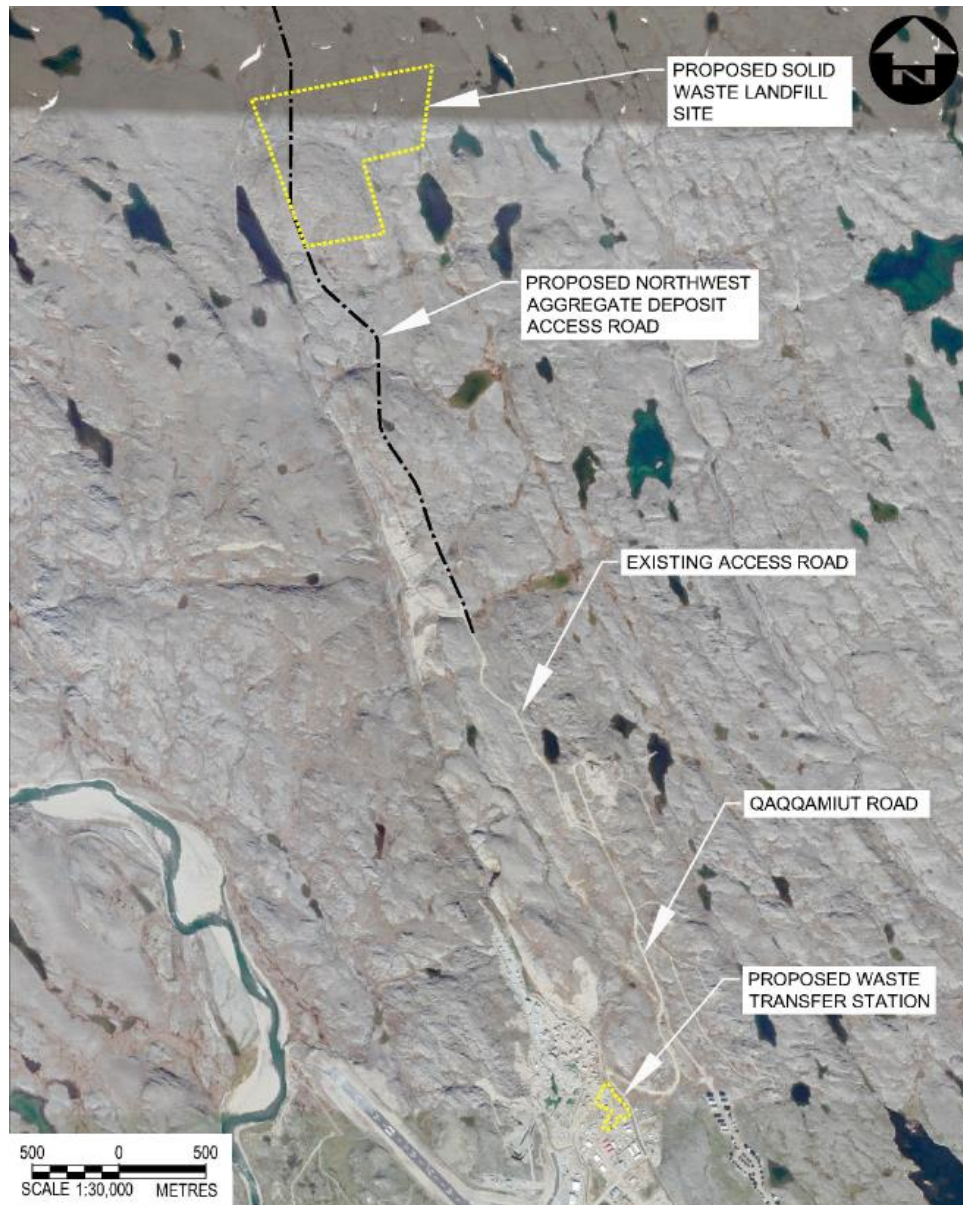


Figure 1-1 Facility Site Locations

Scope of amendment application

The City is applying to amend its current type A licence no 3AM-IQA1626:

- Construction, operation and eventual decommissioning of the proposed Waste Transfer Station (WTS) and other associated systems that would process the municipal waste.
- Construction, operation and eventual decommissioning of the proposed the proposed new Solid Waste Landfill and associated infrastructure.

4. SUPPORTING DOCUMENTATION

A number of supporting documents were prepared for the new Solid Waste Landfill and Transfer Station to support the amendment application package.

These documents include:

- Environmental Management Plan including
 - Environmental Protection Plan, and;
 - Emergency Response Plans
- Construction drawings and specifications.
- Facility Operations and Maintenance Manual
- Method Statement of Construction
- Erosion and Sediment control Plan
- Landfill and Waste Transfer station Facility Monitoring Program
- Facility Risk Assessment Report
- Investing in Canada Infrastructure Program (ICIP) Reports
- ICIP Greenhouse Gas (GHG) Emissions Assessment and Report
- ICIP Climate Change Resilience (CCR) and Report
- Closure and Decommissioning Plans

Please see attached appendices for the details of the facilities being proposed for this amendment.