

Municipality of Arctic Bay Water Licence 3BM-ARC1924 Water Licence Renewal and Amendment Application

EXECUTIVE SUMMARY

The Municipality of Arctic Bay is submitting to the Nunavut Water Board (NWB) a Water Licence Renewal and Amendment Application for Water Licence No. 3BM-ARC1924. The Hamlet is also seeking a twenty-three (23) year renewal of the Licence which would be valid until 2047. The projected population of the Hamlet in the year 2047 is 1,418 people.

The Municipality of Arctic Bay utilizes Marcil Lake for potable water. Water is pumped from Marcil Lake throughout the year into the adjacent water treatment plant for municipal purposes. Between May 2025 and September 2027, the Municipality intends to construct a new water treatment plant that pumps water from the same water source placed adjacent to the existing water treatment plant. Based on the estimated population projection of 1,418 by 2047, an increase to the annual water use withdrawal limit from Marcil Lake from 59,900 cubic metres to 75,000 cubic metres is requested. No changes to the daily water use withdrawal limit of 299 cubic metres is required.

Sewage is disposed of and treated in a single cell storage lagoon with the capacity of a period of one year. During the open water season, the sewage is discharged by pump into a natural tundra vegetated filter strip wetland area 11.2 hectares in size for additional treatment prior to release into the environment at Victor Bay.

The solid waste disposal facility consists of a fenced disposal area for municipal solid waste (MSW), a separate bulk metal disposal area, and a separate hazardous materials area.

There are no changes to the infrastructure or operations of the Sewage Disposal and Solid Waste Disposal facilities.

The Municipality of Arctic Bay is also requesting amendments to various items of the existing water licence outlined in the document with the submission titled *Water Licence 3BM-ARC1924 Renewal and Amendment Application: Amendment Justification Summary*.