

**Resolute Bay Landfill Remediation Project  
Transport Canada  
March 2020**

**Executive Summary  
Nunavut Water Board (NWB) Licence No. 1BR-RBL1929**

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## **1.0 INTRODUCTION**

This is an executive summary of all plans, reports, and studies conducted for the Resolute Bay Landfill Remediation Project under Nunavut Water Board (NWB) Licence No. 1BR-RBL1929 as part of the 2019 annual report.

## **2.0 LOCATION**

The Resolute Bay Airport is five kilometres northwest of the Inuit hamlet of Resolute, adjacent to Resolute Bay on Cornwallis Island, Nunavut. For the purposes of this summary, the airport terminal building is a referenced point that represents the “Airport”. There are three Areas of Environmental Concern (AEC) associated with the remediation work. Two existing historical landfills referenced as a Solid Waste Landfill (referred to as AEC 1), a Historical Landfill (referred to as AEC 2) and a Vehicle Storage Area (referred to as AEC 3). The AEC 1 landfill is approximately 2.7 km north-northwest of the Resolute Bay Airport. The AEC 2 landfill is approximately 0.3 km southwest of the Resolute Bay Airport. The Vehicle Storage Area is approximately 3.6 km northwest of the Airport located on the raised south edge of the McMaster River Valley.

## **3.0 PROGRAM OVERVIEW**

The objective was to reduce the environmental liability of the site using remediation and risk management. Site remediation took place from 2018 to 2019. The remedial tasks completed at the site included, but were not limited to:

- Removal of physical hazards (i.e. slope stabilization, and debris removal)
- Consolidation of non-hazardous waste and debris to the Solid Waste landfill (AEC 1)
- Off-site disposal of hazardous materials
- Borrow source development for landfill capping material
- Capping of two existing landfills with gravel materials
- Construction of drainage swales (channels to direct water runoff)
- Installation of monitoring wells

The hazardous materials were consolidated and shipped off-site to approved licensed waste facilities in the province of Quebec. The hazardous waste shipped off-site included:

- Batteries
- Asbestos Containing Materials
- Metal with lead-based paint
- Paint cans
- Petroleum based liquids
- Transformers
- Fridges
- Fire extinguishers
- Impacted soil

Moving forward, monitoring will occur in accordance with the Water Licence.

#### 4.0 2019 REPORTS

The following 2019 reports have been submitted for the Resolute Bay Airport Landfill Remediation work:

Report Title	Report Summary
Remedial Action Plan – Remediation Site Closure Report for the Resolute Bay Airport Landfill, Resolute Bay, Nunavut, February, 2020.	Details on how the remediation was completed.
Post-Closure Monitoring Plan for the Resolute Bay Airport landfill, Resolute Bay, Nunavut, February, 2020.	Information on Long-Term Monitoring of the Waste Disposal Facilities and that addresses water quality monitoring, and ground water monitoring.
Operations and Maintenance Manual, Resolute Bay Airport Landfill Remediation Project, Resolute Bay, Nunavut, February 2020.	Includes the following: a. As-built construction drawings of the facility (stamped by a professional Engineer registered in Nunavut); b. Feasibility of alternative disposal methods and sites; c. Operation and maintenance procedures for each facility; and d. Runoff diversion and management.
Nunavut Water Board License 1BR-RBL1929 2019 Annual Report, Resolute Bay Airport Landfill Remediation, Resolute Bay, Nunavut, February 2020.	Includes the following: a. A summary report of Water use and Waste disposal activities; b. Quantity of Waste disposed of on on-site Waste disposal facility; c. Quantity of Waste backhauled to approved facility for disposal; d. A list of unauthorized discharges and a summary of follow-up actions taken; e. Any revisions to the management plans, as required by Part B, Item 6, submitted in the form of an Addendum; f. A description of all progressive and or final reclamation work undertaken, including photographic records of site conditions before, during and after completion of operations; g. A summary of all information requested and results of the Monitoring Program; h. A summary, including photographic records before, during and after any relevant construction activities or Modifications and/or major maintenance work carried out on facilities

	<p>under this Licence and an outline of any work anticipated for the next year;</p> <p>i. If applicable, a description of any trenches and sumps excavated, including but not limited to the following: GPS coordinates, dimensions, depth below active layer, and secondary containment features;</p> <p>j. A summary of public consultation/participation, describing consultation with local organizations and residents of the nearby communities, if any were conducted;</p> <p>k. A summary of work done to address concerns or deficiencies listed in inspection reports and/or compliance reports prepared by an Inspector;</p> <p>l. An executive summary in English and Inuktitut of all plans, reports, or studies conducted under this Licence (<i>i.e. this document</i>); and</p> <p>m. Any other details on Waste disposal requested by the Board by the 1st November of the year being reported.</p>
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