

# **Waste Management Plan**

For

Airside Surface Rehabilitation - Whale Cove, NU

5581 Nunavut Ltd.

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## Plain Language Summary

This Waste Management Plan explains how 5581 Nunavut Ltd. will manage all waste generated during the Airside Surfaces Rehabilitation Project at Whale Cove Airport. This includes clean and contaminated soil, water, snow, packaging materials, and used spill response supplies. Some materials may be treated and reused on-site, but anything that cannot be reused or safely treated will be removed and taken to an approved facility. Hazardous waste will never be sent to Nunavut landfills, as they are not authorized to accept it.

### 1. Project Information

- **Project Title:** Airside Surface Rehabilitation – Whale Cove Airport
- **Company Name:** 5581 Nunavut Ltd.
- **Corporate Address:** 1825 Federal Rd, Iqaluit, NU, X0A 0H0
- **Project Location:** Whale Cove, Nunavut
- **Project Contacts:**
  - Jon Cutler, Construction Manager – 709-685-8819
  - Steve White, Foreman – 709-771-0740
  - Norman Pope, Site Superintendent – 709-277-6057

### Project Scope Summary:

This project involves the rehabilitation of the airside surfaces at Whale Cove Airport, specifically focusing on the runway, taxiway, and apron areas. The scope includes:

- **Grading and Compaction:** Scraping and scarifying existing granular surfaces, followed by grading and compacting to 150 mm below finished grade.
- **Granular Materials Production:** Producing granular base and surface materials for airfield use.
- **Stockpiling:** Stockpiling a 12-year maintenance supply of granular surface course material.
- **Surface Course Placement:** Final placement of base and surface course on the runway, taxiway, and apron.
- **Quarry Operations:** The quarry will be used for the production of necessary aggregates, requiring stripping, crushing, and processing of local rock.
- **Collaboration:** Close coordination with local authorities and the Government of Nunavut for all activities within the airport boundaries and quarry areas.

### 2. Environmental Policy

5581 Nunavut Ltd. is committed to:

- Full compliance with federal, territorial, and municipal regulations, including environmental protection standards specific to Nunavut.
- Minimizing environmental impacts through proper waste handling and disposal procedures.
- Ensuring that all hazardous waste is handled, stored, and transported off-site to authorized disposal facilities in compliance with territorial regulations.

### 3. Purpose and Objectives

The primary objectives of this Waste Management Plan are to:

- Identify and categorize waste streams generated from both the construction and quarry operations.
- Implement procedures for handling, storing, transporting, and disposing of waste in an environmentally responsible manner.
- Ensure that no hazardous waste is disposed of in local landfills, as they are not authorized to accept hazardous materials.
- Prevent environmental contamination of land, water, or permafrost due to improper waste management practices.

### 4. Applicable Regulations and Guidelines

This plan follows all applicable regulations, including:

- **Government of Nunavut Environmental Guidelines:**
  - General Management of Hazardous Waste (2010)
  - Site Remediation (2002)
  - Contaminated Site Remediation (2003)
- **Transportation of Dangerous Goods Regulations (SOR/2012-245)**
- **CCME Environmental Quality Guidelines**
- **Project Specifications:**
  - Section 01 06 00 – Regulatory Requirements
  - Section 31 05 17 – Aggregate Materials

### 5. Environmental Setting

The Whale Cove Airport and quarry areas are situated in a northern Arctic ecozone, characterized by permafrost conditions and limited vegetation. The construction season is brief, typically restricted to the warmer months, necessitating careful planning for waste management in this challenging environment. Quarry operations will involve stripping, crushing, and processing of local rock, which will be used in the rehabilitation of airside surfaces.

The wildlife in the area includes caribou, Arctic fox, and migratory birds, and appropriate measures will be implemented to avoid harm to these species during operations.

### 6. Waste Types

#### **Non-Hazardous Waste:**

- Clean fill from grading operations
- Surplus or rejected granular materials
- Construction packaging (wood pallets, shrink wrap, etc.)
- Temporary construction waste (scrap wood, steel, fencing, etc.)

**Potentially Contaminated Waste:**

- Soil or snow contaminated by hydrocarbons (e.g., fuel spills)
- Water used for equipment washing or dust suppression
- Soiled absorbents, booms, rags, and gloves from spill cleanup

**Hazardous Waste:**

- Hydrocarbon-contaminated soil and snow
- Used fuel filters and oily parts
- Drained containers of lubricants, solvents, or hydraulic fluids
- Any materials classified as dangerous goods under TDG regulations

**7. Waste Management Procedures**

**7.1 Source Reduction and Reuse:**

- Materials such as scraped granular surfaces may be reused for grading operations (e.g., runway strips) or blended with crushed aggregate to meet gradation requirements.
- Clean fill may be reused for construction staging or to level site areas.

**7.2 Onsite Storage:**

- Waste will be sorted at the point of generation into designated containers, with separate bins for hazardous, contaminated, and non-hazardous waste.
- Hazardous and contaminated materials will be stored in a locked, lined, and bermed containment area to prevent spillage.
- General construction waste will be stored in covered bins to prevent wind dispersal and reduce litter.

**7.3 Offsite Disposal:**

- Non-hazardous construction waste will be taken to the Whale Cove landfill, subject to Hamlet approval.
- Hazardous and contaminated waste will be transported to licensed treatment facilities outside Nunavut, in accordance with territorial regulations.

**8. Hazardous Waste Disposal Plan**

Since local landfills do not accept hazardous waste, the following plan will be implemented:

**Collection & Handling:**

- Hazardous waste will be collected in sealed, UN-rated containers (e.g., drums, totes).
- Labels will comply with WHMIS and TDG regulations, indicating the hazard class, description, and generator name.

- A log of hazardous waste will be maintained, tracking its quantity, origin, and date of storage.

**Storage:**

- Hazardous waste will be stored in a designated containment area with:
  - Secondary containment (e.g., spill berms or trays)
  - Weather protection (e.g., tarps or sea cans)
  - Security measures (e.g., locked access, appropriate signage)

**Transportation & Disposal:**

- All hazardous waste will be transported by a licensed hazardous waste transporter.
- Federal Movement Documents (FMDs) will accompany all hazardous waste shipments.
- Disposal will take place at a licensed hazardous waste facility in southern Canada (e.g., in Manitoba or Alberta).
- 5581 Nunavut Ltd. will retain manifests, FMDs, and disposal receipts for a minimum of 5 years.

**9. Documentation and Reporting**

A waste management log will be maintained, detailing:

- Date of waste generation and collection
- Type and quantity of waste
- Temporary storage location
- Final disposal destination (e.g., landfill or licensed disposal facility)
- Transportation details (carrier, FMD number)
- Signature of authorized personnel

Logs and supporting documents will be submitted to the Government of Nunavut upon request or at project closeout.

**10. Training**

All personnel involved in waste management will receive:

- **WHMIS 2015** certification
- **TDG** training and certification
- Onsite orientation, which will include:
  - Identification of waste collection areas
  - Spill response materials and protocols
  - Reporting and documentation procedures

Regular spill drills and toolbox talks will be held to reinforce safe waste management and response procedures.

## 11. Emergency and Spill Response

5581 Nunavut Ltd. maintains an active **Spill Contingency Plan** that governs all fuel handling, storage, and spill cleanup activities. In the event of a spill:

- The area will be secured and isolated.
- Contaminated materials will be collected and containerized for proper disposal.
- Spill cleanup materials, such as absorbents and booms, will be treated as hazardous waste and disposed of accordingly.

## Conclusion

This Waste Management Plan ensures the safe and environmentally responsible handling of waste generated during the Whale Cove Airside Surfaces Rehabilitation Project. It complies with all regulatory requirements and project specifications while addressing the unique environmental and logistical challenges of working in Nunavut.