
Project Overview

Type of Application: Amendment

Proponent's name: Raquel Labranche, P.Eng. (NAPEG Licence No. L4172)
Company: Qikiqtaaluk Environmental Inc.

Schedule:

Start Date: April 6, 2021
End Date: Ongoing
Operation Type: Annual

Project Summary:

Qikiqtaaluk Environmental Inc. currently operates a hazardous waste facility in Iqaluit. We will be purchasing an outdoor, containerized biomedical waste incinerator (see i8-M200 specifications attached in this application) to dispose of different types of waste, including sharps, pathological and anatomical waste, surgical dressings, bandages, expired medication, pharmaceutical waste, documents, and animal carcasses. We do not intend to burn any heavy metals. We would be incinerating approximately 1.5 – 2 m³ of waste daily (with an estimated maximum weight of 500-750 kg/weekly), and the ash will be sampled and either disposed of at the local landfill or sent south for disposal. The waste is produced by the Qikiqtani General Hospital, community health centres, dentists, correctional centers, Veterinarian, RCMP, etc. Currently, we are packaging all their waste in UN-rated boxes and storing them in 20' containers to be disposed of in the south. We would like to receive and install the incinerator in the summer of 2021 and have at least 2 trained operators onsite to operate the unit. The unit would be used approximately twice a week year-round. The air quality and wind direction will be monitored. We will refer to the *Environmental Guideline for the Burning and Incineration of Solid Waste*, Department of Environment, Government of Nunavut, October 2010, Revised 2012, and the Department of Environment – Government of Nunavut's *Environmental Guideline for Biomedical and Pharmaceutical Waste*, March 2014. We will also update our Hazardous Waste Management Site registration. We do not intend to alter the water use and waste disposal conditions covered under the current Water Licence (attached in this application). As per the screening decision, the unit will not create more risks for freshwater. The I8-M200 unit will be operated using diesel fuel and will be installed in a 20-ft container (see containerized example attached). The container will include a pre-installed generator, lighting, flooring and mounted control panel. A fuel tank will be installed inside the container, complete with all the necessary piping connections. The unit has a secondary chamber with a retention time of 2 sec at up to 1,200°C to reburn the exhaust gases from the waste. The emissions report demonstrates that it is below the EU standards (see Emissions EU and Emissions testing attached). The unit will never be left unattended while it is in use, and it will be on a fenced lot and not accessible to the public. There will be a fire extinguisher near the unit. Thank you for reviewing this application and transferring the information to applicable authorization agencies.

Persons: 2
Days: 261

List of all project geometries:

ID	Geometry	Location Name
6361	point	New project geometry

Planning Regions: Qikiqtani**Affected areas and Land Types:** Municipal, Settlement Area

Project Land Use and Authorizations

Project Land Use: Site Cleanup/Remediation

Licensing Agencies – NWB: Type B Licence

Other Licensing Requirements: No data found

Equipment

Type	Quantity	Size	Use
Incinerator i8-M200	1	1.52m x 0.92m x 4.4m	Incineration of waste. See project description. And see Product PDF attached

Fuel Use

Type	Container (s)	Capacity	UOM	Use
Diesel	1	1,000	Litres	To operate incinerator

Hazardous Materials and Chemical Use

Type	Container (s)	Capacity	UOM	Use
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No records found

Water Consumption

Daily Amount (m ³)	Retrieval Method	Retrieval Location
0		