

NPC 150969: Renewal and Amendment of the Hamlet of Pond Inlet Water License #3BM-PON2025

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Proposal Status: Conformity Determination Issued

[Overview Documents](#)

[Project Overview](#)

Type of application: Amendment

Proponent name:

Municipal Works Division

Proponent company:

Transportation and Infrastructure Nunavut

Project Description:

The Municipality of Pond Inlet is applying for a Type A municipal water licence to support the construction and 20-year operational phase of the new water treatment facility planned for construction beginning July 2026 and operations beginning starting September 2028. Due to the projected increased municipal water consumption based on the future community population and process waste water from the new treatment train, the requested withdrawals volumes are 2,030 m³ daily for reservoir resupply and 166,845 m³ annually. Water will continue to be withdrawn by the water treatment plant from the water reservoir, which will be expanded from the existing 118,154 m³ storage capacity to 166,845 m³, and resupplied annually from Salmon Creek by pumping. The proposed maximum daily withdrawal represents an estimated percent withdrawal of 7.2% of the instantaneous flow of the Salmon Creek. Until the new water treatment facility is commissioned in 2028, the existing water treatment facility will remain in use. No changes to the infrastructure or operations are proposed for the solid waste facility or sewage disposal facility. The operations dates in the Project Schedule refer specifically to the new water treatment plant.

[Project Schedule](#)

Start Date:

2028-09-01

End Date:

2048-09-01

[Project Map](#)

List of project geometries:

Id

Geometry

Location Name

[19209](#)

polygon

Existing and New Water Treatment Facility

[19210](#)

polygon

Solid Waste Facility

[19211](#)

polygon

Wastewater Treatment Facility

NPC Planning regions:

North Baffin

[Project Land Use and Authorizations](#)

Project Land Use:

Permanent Structures

Licensing Agencies:

Nunavut Water Board

Nunavut Water Board

Government of Nunavut - Community and Government Services

[Material Use](#)

Equipment:

Type

Quantity

Type

Use

Submersible Pump

2

xyz

For operations phase of water treatment plant to draw water from the reservoir into the water treatment plant.

Centrifugal Pump

1

xyz

For operations phase of water treatment plant to draw water from Salmon Creek into the reservoir.

Treated Water Trucks

4

xyz

For operations phase of water treatment plant to deliver water to tanks in the community.

Heavy equipment

10

xyz

For construction phase of new water treatment plant for earthworks, landscaping, and grading.

Fuel Use:

Type

Container

Capacity

Use

Diesel

1

250000

For operations phase to run the boilers and genset of the water treatment plant. Quantity of fuel is the size of the fuel tank. Approximately 250,000 Litres of diesel to be used annually per year of operation.

Hazardous Material and Chemical Use:

Type

Container

Capacity

Use

Sodium hypochlorite 12%

1

2569

For operations phase. For disinfecting water and cleaning the treatment equipment. Approximate annual quantities provided are for the year 2048, which would be the maximum amount.

Soda ash

1

25025

For operations phase. For pH adjustment of water during treatment. Approximate quantities provided are for the year 2048, which would be the maximum amount.

Aluminum chlorohydrate

1

22286

For operations phase. For treatment (clarification) of water. Approximate quantities provided are for the year 2048, which would be the maximum amount.

Water Consumption:

Daily Amount (m²)

Retrieval Method

Retrieval Location

2030

Water reservoir and Salmon Creek

Pump

Waste and Impacts

Environmental Impacts:

The new water treatment plant is a critical municipal asset. The wastes from construction will be minimized and brought to the municipal solid waste facility and handled according to the Operations and Maintenance Plan for the Solid Waste Disposal Facility along with the ongoing municipal waste collected from the community.

Waste Management:

Waste Type

Quantity Generated

Treatment Method

Disposal Method

Combustible wastes

Up to 10.848 m³ (uncompacted) per capita per year

None

Segregate, compact, and cover within the solid waste facility

Hazardous waste

Up to 0.012 m³ per capita per year

Backhaul to accredited facility for final disposal

Appropriate storage containment within the solid waste facility

Overburden (organic soil, waste material, tailings)

Unknown

None

Landfarm

Sewage (human waste)

Up to 166,845 m³

Wetland treatment area

Sewage lagoon