



## **NIRB Application for Screening #125743**

### **Application for the Water Licence Amendment of the Municipality of Kimmirut #3BM-KIM1929**

**Application Type:** New

**Project Type:** Municipal and Industrial Development

**Application Date:** 11/29/2022 3:55:58 PM

**Period of operation:** from 0001-01-01 to 0001-01-01

**Proposed Authorization:** from 0001-01-01 to 0001-01-01

**Project Proponent:** Department of Community and Government Services, Bhabesh Roy  
Department of Community and Government Services, Bhabesh Roy  
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## Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
sewage lagoon	Municipal and Industrial Development	Municipal	shallow fresh water lake	site has no archeological or paleontological value	proximity to the town 1.3 km

## Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Information is not available			

# Authorizations

Indicate the areas in which the project is located:

South Baffin

## Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Water Board	water license 3BM-KIM1929	Active	2019-05-27	2029-05-26

## Project transportation types

Transportation Type	Proposed Use	Length of Use
Land	SEWAGE TRUCKS	

## Project accomodation types

Community

## Material Use

Equipment to be used (including drills, pumps, aircraft, vehicles, etc)

Equipment Type	Quantity	Size - Dimensions	Proposed Use
excavator	1	heavy duty	excavation
crusher	1	heavy duty	aggregate production
screener	1	heavy duty	aggregate screening
dump truck	2	heavy duty	aggregate and construction material ground transportation
front loader	1	heavy duty	loading aggregate and construction materials
heavy duty compactor	2	heavy duty	aggregate compaction
grader	1	heavy duty	grading
dewatering pumps	2	heavy duty	surface water management and diversion
water truck	1	12000 L	aggregate material compaction

### Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
unknown	hazardous	0	0	0	Liters	Not applicable
Diesel	fuel	1	12000	12000	Liters	PPD fuel truck

### Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0		

# Waste

## Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Information is not available				

### Environmental Impacts:

presently community sewage disposal practice is direct discharge into marine environment. this project will improve environmental impacts by providing proper sewage containment and treatment.

# **Additional Information**

**SECTION A1: Project Info**

**SECTION A2: Allweather Road**

**SECTION A3: Winter Road**

**SECTION B1: Project Info**

**SECTION B2: Exploration Activity**

**SECTION B3: Geosciences**

**SECTION B4: Drilling**

**SECTION B5: Stripping**

**SECTION B6: Underground Activity**

**SECTION B7: Waste Rock**

**SECTION B8: Stockpiles**

**SECTION B9: Mine Development**

**SECTION B10: Geology**

**SECTION B11: Mine**

**SECTION B12: Mill**

**SECTION C1: Pits**

**SECTION D1: Facility**

**SECTION D2: Facility Construction**

**SECTION D3: Facility Operation**

**SECTION D4: Vessel Use**

**SECTION E1: Offshore Survey**

**SECTION E2: Nearshore Survey**

**SECTION E3: Vessel Use**

## **SECTION F1: Site Cleanup**

## **SECTION G1: Well Authorization**

## **SECTION G2: Onland Exploration**

## **SECTION G3: Offshore Exploration**

## **SECTION G4: Rig**

## **SECTION H1: Vessel Use**

## **SECTION H2: Disposal At Sea**

## **SECTION I1: Municipal Development**

1. Municipality sewage disposal facility is identified as Municipal Capital Facility. Project consists of Sewage Lagoon and wetland construction. Daily service provision service consists of Collecting raw sewage from businesses and private housing, trucking and disposing the raw sewage into sewage lagoon. Once a year sewage will be decanted into wetland area. To construct new sewage lagoon, local quarry material will be used. Produced quarry aggregate will be trucked to the construction site. Recommended but not limited to, PPE in sewage disposal consists of gloves, eye protection, hard hat, steel toe boots, tyvek coverall and face respirator. There is no safety requirement to have fire fighting equipment installed at the sewage lagoon facility. Fire extinguishers are located within sewage trucks. Sewage truck engine and sewage pump are the Noise sources during sewage disposal process. Ear plugs are recommended.

### **Description of Existing Environment: Physical Environment**

Presently Kimmirut sewage disposal is uncontrolled direct sewage discharge into the wetland area, directly connected with marine environment. Access road to existing sewage discharge area will be upgraded. There are no designated recreational, harvesting or park areas in vicinity.

### **Description of Existing Environment: Biological Environment**

Existing shallow fresh water lake to be converted into sewage lagoon does not house any aquatic species. It is not recognized spot as a critical habitat or residence of any species. Locals have not noticed any migration or spawning patterns of any species.

### **Description of Existing Environment: Socio-economic Environment**

Existing area has been used as an unregulated sewage disposal for decades. There are no land or marine harvesting activities in sewage disposal area.

### **Miscellaneous Project Information**

### **Identification of Impacts and Proposed Mitigation Measures**

Constructing the new waste water treatment disposal facility ( sewage lagoon) will significantly improve land and aquatic environment

### **Cumulative Effects**

Monitored and regulated new sewage disposal facility will have significant positive impact on environment



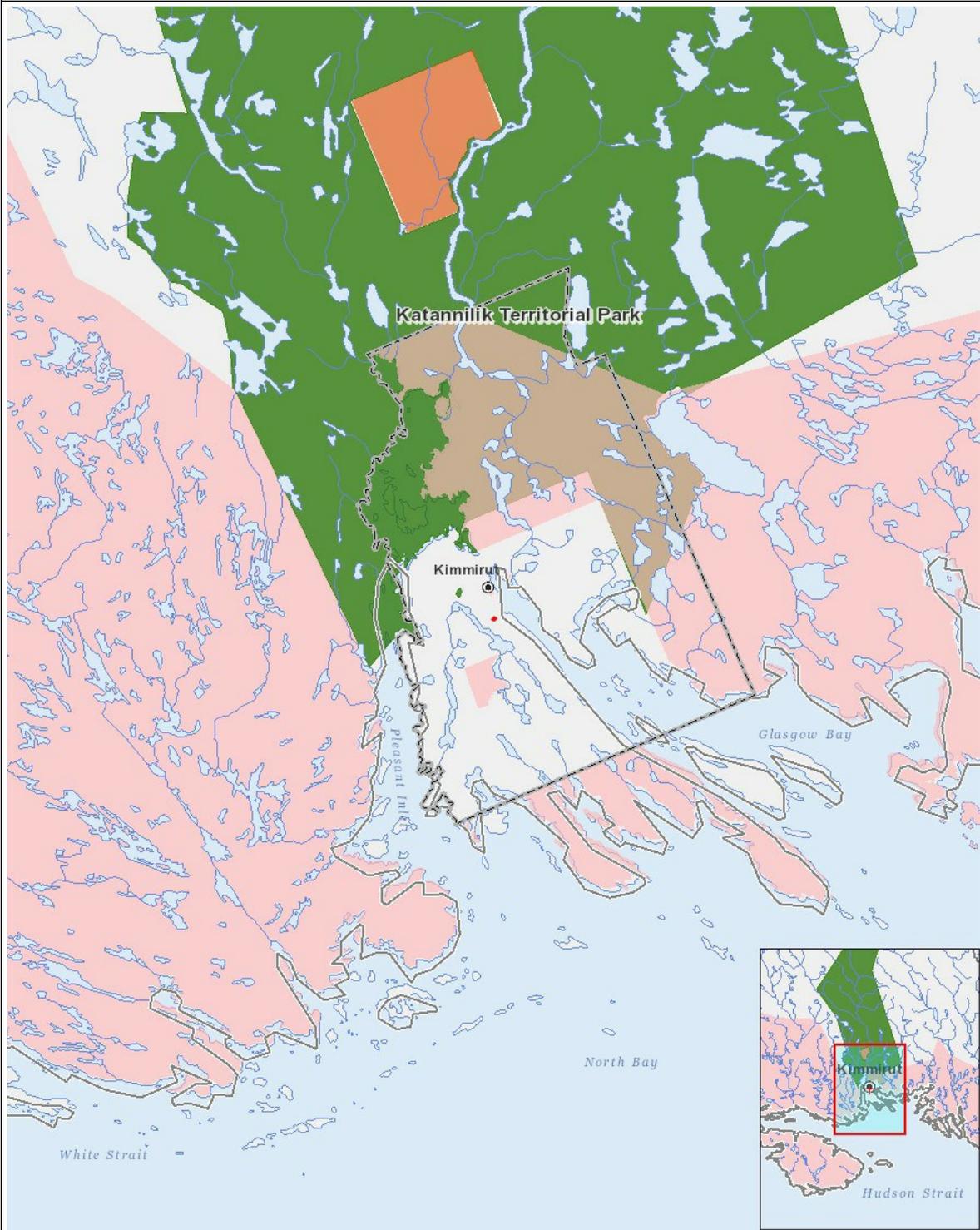
# Impacts

## Identification of Environmental Impacts

	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
<b>Construction</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Operation</b>																									
Municipal and Industrial Development		-	-	-	-	P	-	-	-	-	-	-	-		-	U	M	P	-		-	P	P	P	P
<b>Decommissioning</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

Project Location



List of Project Geometries

1	polygon	sewage lagoon
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