



## **NIRB Application for Screening #125541**

### **Arviat quarry site (near lagoon)**

**Application Type:** New

**Project Type:** Pits and Quarries

**Application Date:** 6/19/2020 3:19:02 PM

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

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

**Project Proponent:** NIRB info  
Nunavut Impact Review Board  
Box 1360 ( 20 Mitik)  
Cambridge Bay Nunavut X0B 0C0  
Canada  
Phone Number:: (867) 983-4600, Fax Number:: (867) 983-2594

# DETAILS

## Non-technical project proposal description

English: A quarry site to be used by the local Hamlet to meet the aggregate needs of the community. This site was previously used as a quarry but has since been largely discontinued. Occasionally, the Hamlet does use this site to extract material to be used for road grading and repairs. The exact date is not known when this site was first used to extract quarry material but it is estimated it started between 1980's to 2000's. At this time there is no currently approved extraction amount per year. The plan is it get the quarry approved as a whole and the Hamlet will authorize material to be taken out of the quarry on an as needed basis using quarry permits. Approved size of the quarry is the one shown in the project proposal. Its estimated that there is 80,000 cubic metres of material. There are no plans to increase the footprint.

French: N/a

Inuktitut: N/a

Inuinnaqtun: N/a

## Personnel

Personnel on site: 2

Days on site: 1800

Total Person days: 3600

Operations Phase: from 2020-04-05 to 2040-09-29

## Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Quarry site boundary	Quarry/Borrow pit	Municipal	N/A	N/A	Within municipal boundaries of Rankin Inlet and Arviat

## Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Information is not available			

# Authorizations

Indicate the areas in which the project is located:

Kivalliq

## Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Information is not available				

## Project transportation types

Transportation Type	Proposed Use	Length of Use
Land	Loader, dump truck	

## Project accommodation types

Community

## Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Loader	1	5.7m x 2.7m x1.5m	excavate quarry material
dump truck	1	8m x 2.5m x 3.4m	haul quarry material

## Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Diesel	fuel	1	500	500	Liters	used to fuel the loaders and dump trucks

## 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:

quarry will be excavated which will result in the soil and vegetation being disturbed. Once quarry is depleted, the edge of the quarry will be smooth out to prevent steep incline surfaces and the vegetation will grow back naturally over time.

# **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**

**Description of Existing Environment: Physical Environment**

**Description of Existing Environment: Biological Environment**

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

**Miscellaneous Project Information**

**Identification of Impacts and Proposed Mitigation Measures**

**Cumulative Effects**

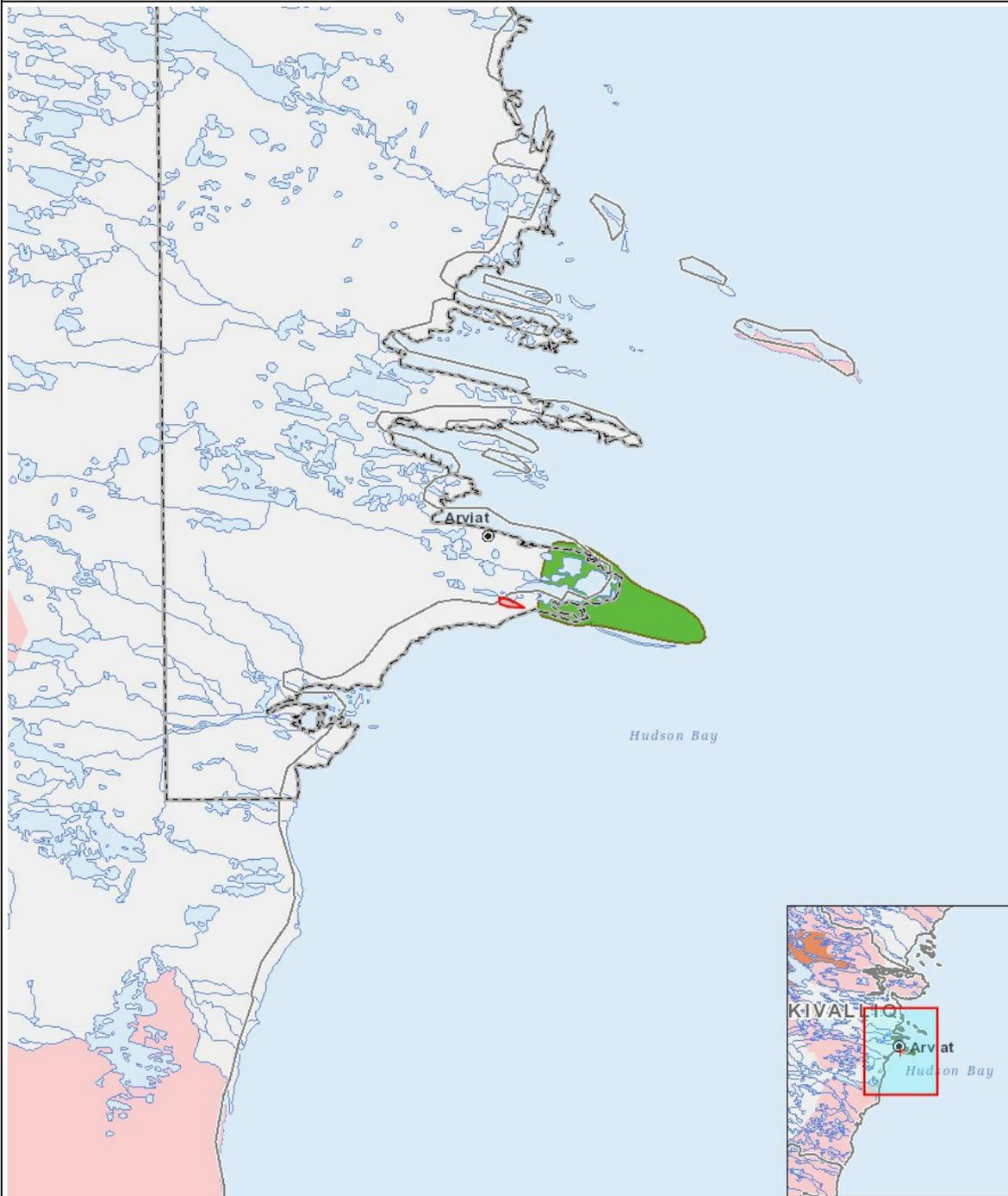
# Impacts

## Identification of Environmental Impacts

	<b>PHYSICAL</b>	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	<b>BIOLOGICAL</b>	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	<b>SOCIO-ECONOMIC</b>	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
<b>Construction</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Operation</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Decommissioning</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Project Location



List of Project Geometries

1	polygon	Quarry site boundary
---	---------	----------------------