



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 accomodation 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

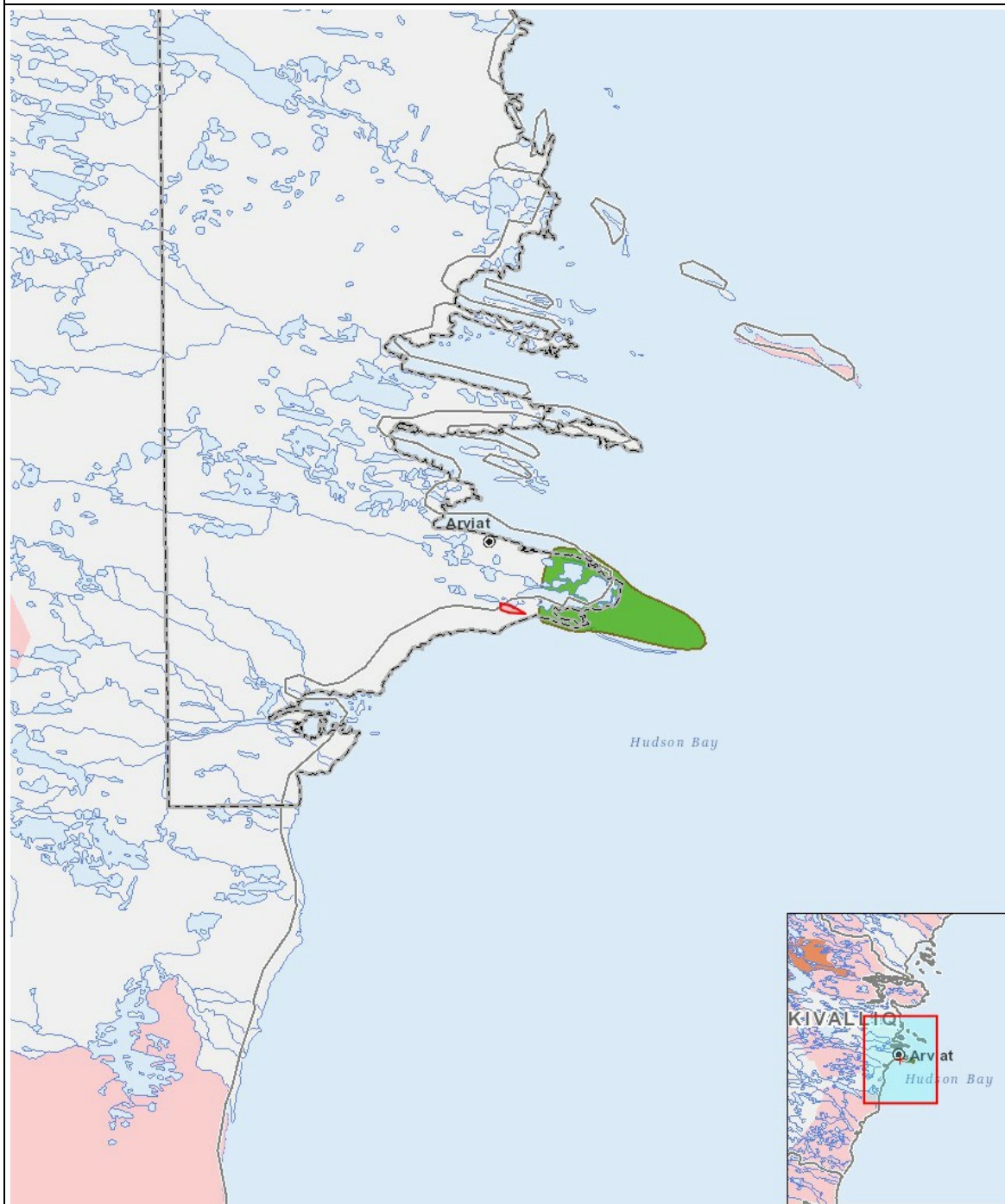
Impacts

Identification of Environmental Impacts

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

Project Location



List of Project Geometries

1	polygon	Quarry site boundary
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