

▷⁹ḅ_ḥ▷^ḥḥ: 8678973619, ḥḅḥ^ḥḅ_ḥ:

Operations Phase: from 2019-10-25 to 2029-10-25

$$\Lambda \subset \mathbb{N} \triangleleft \mathbb{N} \xrightarrow{\sigma} \mathbb{N} \xrightarrow{\sigma^b} \mathbb{N}^c$$
[illegible]

መረጥፈኛ ልረጥፍጋል፡፡ ለሌሎች ለሚገባው ልረጥፍጋል፡፡

မေ့ဇာတ်နိဂုံး	အမည်	မိသားစုအမည်	ရက်စွဲ
မေ့ဇာတ်နိဂုံး	Eric Lawlor	Hamlet of Pangnirtung	2019-08-06

[illegible]

$a^{\dagger}r^a r^b \Lambda_{\sigma} n^c \Delta_{\sigma} D^c$ በበፍጋር:

South Baffin

[illegible]

ᐱᑦᓂᐸᕈᓄᐃ ᐅᑲᒃ ᐊᑏᔭᖁᓴᐅᓪᓰᐳᓯᐅᓶᓚᓴᓴᐅᓴᐃ ᐱᑦᓂᐸᕈᓄᐃ ᐅᑲᒃ ᐊᑏᔭᖁᓴᐅᓪᓰᐳᓯᐅᓶᓚᓴᓴᐅᓴᐃ ᐱᑦᓂᐸᕈᓄᐃ ᐅᑲᒃ	ᐱᑦᓂᐸᕈᓄᐃ ᐅᑲᒃ ᐊᑏᔭᖁᓴᐅᓪᓰᐳᓯᐅᓶᓚᓴᓴᐅᓴᐃ ᐱᑦᓂᐸᕈᓄᐃ ᐅᑲᒃ	ᐱᑦᓂᐸᕈᓄᐃ ᐅᑲᒃ	ᐅᑲᒃ ᐊᑏᔭᖁᓴᐅᓪᓰᐳᓯᐅᓶᓚᓴᓴᐅᓴᐃ	ᐱᑦᓂᐸᕈᓄᐃ ᐅᑲᒃ
ᐊᑏᔭᖁᓴᐅᓪᓰᐳᓯᐅᓶᓚᓴᓴᐅᓴᐃ ᐱᑦᓂᐸᕈᓄᐃ ᐅᑲᒃ	This site is located near the ocean however, it is not anticipated that the quarry activities will require water uses or deposit of waste into the waters	Not Yet Applied		
Government of Nunavut, Community Government & Services	Once NIRB approves the quarry, CGS will enter into a Quarry Administration agreement with the Hamlet. This agreement will give the Hamlet control of the quarry and will allowed them to issue permits	Active		
Hamlets and Municipalities	Hamlet of Pangnirtung currently approves land application and CGS issue quarry permit. When the quarry is screened and a Quarry Administration Agreement is signed, the Hamlet will approve and issue quarry permit .	Not Yet Applied		

Project transportation types

Transportation	Length of Use
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Type		
Land		

Project accomodation types

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$\triangleleft^b C d^c$
$$\Delta^b C d_{\sigma} \sim \Delta^{\epsilon} \sigma^{\epsilon b}$$

ገጽ ስም ገጽ ስም	ፍጥነት ስም ፍጥነት ስም	ፍጥነት ስም ፍጥነት ስም	ፍጥነት ስም ፍጥነት ስም	ፍጥነት ስም ፍጥነት ስም
Quarry/Borrow pit	ፍጥነት ስም ፍጥነት ስም	5 tons	Bins will be placed on site to collect waste. The quarry site is located about a block away from the community dump	None

4907DC⁵DC 4^b5^bCD⁵DL⁵

This site will be used to extract aggregate (Sand, Gravel, riprap and silt) to be used for construction projects in the community of Pangnirtung. Stockpiling of aggregate may occur in the event that a project requires aggregate but will not be permanent. A road already exists to the site so construction of a road is not required. Minor slumping may occur to the landscape due to the extraction of aggregate but will be levelled off once the quarry is depleted. Once the sites are depleted of essential aggregate, the quarry will be levelled off to avoid any steep ditches using sand, silt and any other undesirable aggregate. No water will be used in this project and no waste will be dumped into any water source. The runoff from this site will be all natural material (dust, sand etc.) in which runoff of this material already occurs in nature. No plans for snow accumulation exist due to the fact that any changes in snow drifting in this area from extraction of aggregate will be minimal (if any). No fuel will be stored at this location so no official plan exists. In the unlikely event that a transportation vehicle's (dump truck/loader) fuel tank is punctured, the Municipality will call the NU 24-hour spill report line at (867) 920-8130 and immediately extract and remove the aggregate at the point of the spill. The contaminated soil will be relocated to the community land farm. The Municipality's contact information is as follows: ATTN: Eric Lawlor Municipality of Pangnirtung P.O. Box 253 Pangnirtung, NUXOC 0R0PH: (867) 473-8953

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

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The quarry site is not designated as protected neither is it close to parks or protected area. The ground is pretty level and stable. Generally, the dominant surface unit consists of colluvium made of sand and gravel layers up to 4 m thick on top of pre-existing washed till deposits below the marine limit. A thin peat layer (5 to 25 cm) overlies the colluvial deposit. Affected by periglacial processes such as gelifluction lobes and frost boils. Ice wedges occasionally present in the near surface permafrost.

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The tundra around Pangnirtung is home to vibrant dwarf rosy coloured fireweed and fluffy Arctic cotton. You may also see: purple bladder campion, pink clusters of wintergreen, Arctic purple saxifrage, yellow marsh saxifrage, Arctic daisies, mauve harebells, yellow Arctic poppy, star chickweed.

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Site not located near archaeological and cultural historic sites. The quarry will contribute to the socio-economic development of Pangnirtung by providing the community with aggregates for constructional works.

Miscellaneous Project Information

It is estimated that about 80,000 cubic metres of aggregate extracts will be extracted from the site over the course of the next few years. Through technical study, this area of town has been zoned as industrial because there is no known indication of this either by local knowledge. If there is spillage, the Hamlet will reach out to the GN spill line. No spill equipment will be on site.

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These sites will be used to extract aggregate (Sand, Gravel, riprap and silt) to be used for construction projects in the community of Pangnirtung. Stockpiling of aggregate may occur in the event that a project requires aggregate but will not be permanent. A road already exists to the site so construction of a road is not required. Minor slumping may occur to the landscape due to the extraction of aggregate but will be levelled off once the quarry is depleted. Once the sites are depleted of essential aggregate, the quarry will be levelled off to avoid any steep ditches using sand, silt and any other

undesirable aggregate. No water will be used in this project and no waste will be dumped into any water source. The runoff from this site will be all natural material (dust, sand etc.) in which runoff of this material already occurs in nature. No plans for snow accumulation exist due to the fact that any changes in snow drifting in this area from extraction of aggregate will be minimal (if any). No fuel will be stored at this location so no official plan exists. In the unlikely event that a transportation vehicle's (dump truck/loader) fuel tank is punctured, the Municipality will call the NU 24-hour spill report line at (867) 920-8130 and immediately extract and remove the aggregate at the point of the spill. The contaminated soil will be relocated to the community land farm. The Municipality's contact information is as follows: ATTN: Eric Lawlor Municipality of Pangnirtung P.O. Box 253 Pangnirtung, NU X0C 0R0PH: (867) 473-8953

Dust Control Measures

Dust control Measures - Regular washing of extraction, processing and transport equipment. Reducing haul trips and limiting speeds on unpaved roads. Wetting material prior to processing or loading. Covering stock piles, conveyor belts, and loads in trucks. Locating stock piles in locations that limit their exposure to wind. proper loading of trucks. Avoid scheduling loading, unloading and blasting activities on a windy days.

- Re-vegetating disturbed areas as soon as possible to reduce erosion and minimize dust.

Erosion Control Measures

An un-disturbed, vegetation buffer zone and sediment fence barrier will be maintained between the quarry and the ocean where possible; Progressive site stabilization will be implemented as soon as practically possible, and maintained at all times during the quarry. Before commencing earthworks on any part of Lot 2 Block 3, materials sufficient to protect against storms will be available on site and the work scheduled to ensure that, wherever practicable, any permanent or temporary erosion protection is in place before exposing earthworks.

Traditional and Recreational Activities

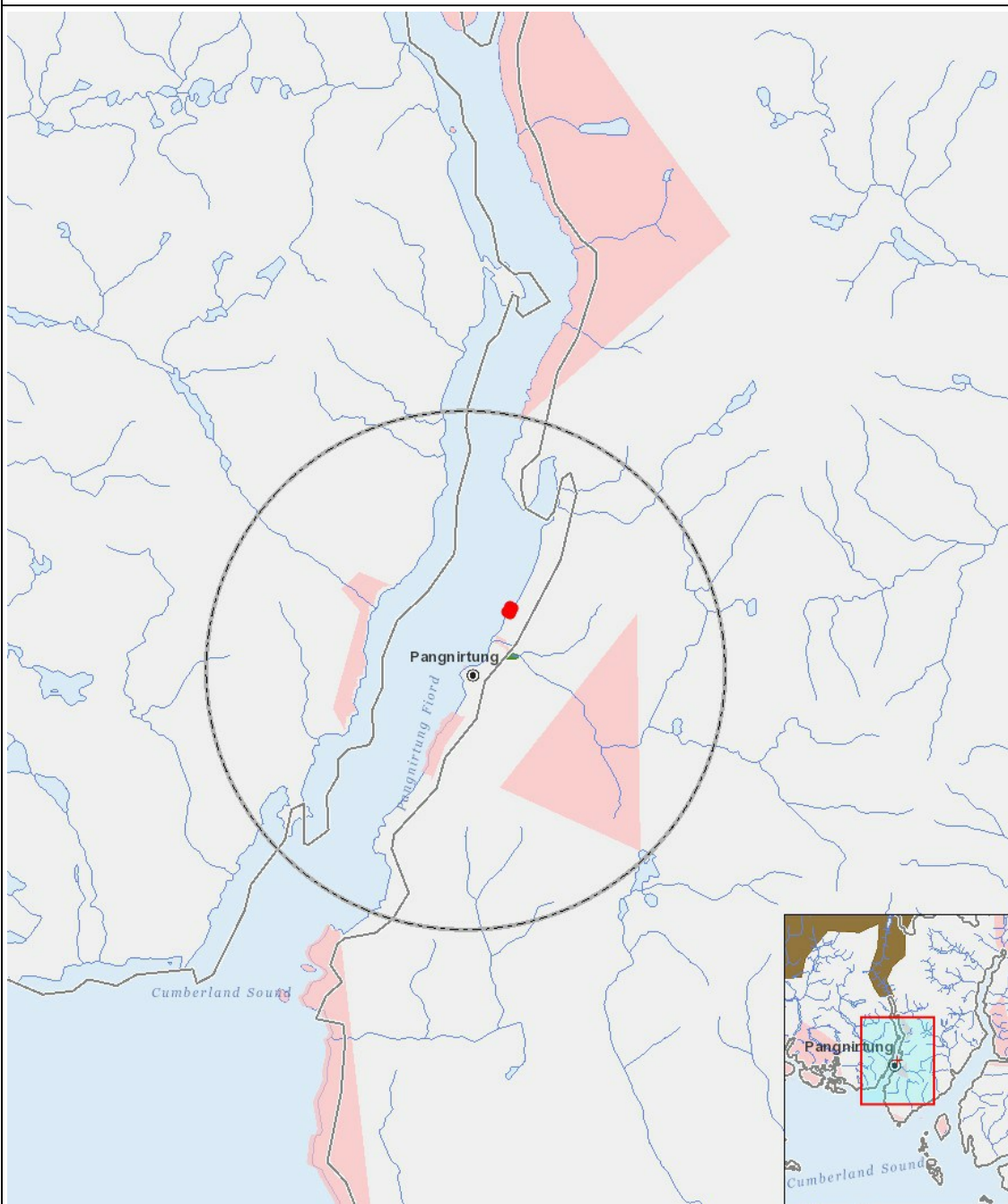
This lot is located at areas zoned for industrial use and close to the dump site so there is no recreational activities close to this site.

Cumulative Effects

Impacts

$\mathbb{A}^1_{\mathbb{C}} \times \mathbb{A}^1_{\mathbb{C}} \rightarrow \mathbb{A}^1_{\mathbb{C}}$

[illegible]
$$(P = \langle b \rangle \Delta_P \cap \langle a \rangle^c)^c, N = \langle b \rangle \Delta_P' \setminus \langle D \rangle \langle a \rangle^c \setminus \langle E \rangle \Gamma' \setminus \langle P \rangle \langle D \rangle \langle a \rangle^c, M = \langle b \rangle \Delta_P' \setminus \langle D \rangle \langle a \rangle^c \setminus \langle E \rangle \Gamma' \setminus \langle P \rangle \langle D \rangle \langle a \rangle^c, U = \langle b \rangle \Delta_P' \setminus \langle D \rangle \langle a \rangle^c \setminus \langle E \rangle \Gamma' \setminus \langle P \rangle \langle D \rangle \langle a \rangle^c)$$



List of Project Geometries

1	polygon	Quarry_1
2	polygon	Quarry_1
3	point	Quarry_1
4	point	Quarry_1
5	point	Quarry_1
6	point	Quarry_1
7	point	Quarry_1
8	point	Q1_1
9	point	Q1_2
10	point	Q1_3
11	point	Q1_4
12	point	Q1_5

