



NIRB Uuktuutinga Ihivriughikhamut #125592

Kugluktuk Quarry Sites (Lot 572 and South of Airport)

Uuktuutinga Qanurittuq: New

Havaap Qanurittunia: Pits and Quarries

Uuktuutinga Ublua: 3/2/2021 1:33:07 PM

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

Piumayaat Angirutinga: from 0001-01-01 to 0001-01-01

Havauhikhaq Ikayuqtinga: Danny Zita
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QANURITTUT

Tukihiannaqtunik havaariya uyumayumik uqauhiuyun

Qablunaatitut: The Kugluktuk quarry deposits sites will be used to extract aggregate (gravel, sand etc...) to meet the construction demands of the community. These sites are located south-west of Kugluktuk. The equipment that will be working on site if approved will be dump trucks to haul aggregate, crushers to break up material and loaders to extract aggregate. These quarries will remain active until all its aggregate are depleted. The Hamlet will use the proceeds from Quarry permit fees to remediate the area to a point in which the area's vegetation can grow back. These sites contain gravel, sand and silt suitable for construction purposes and road maintenance in reasonable quantities which makes these sites desirable locations. The sites are in reasonable proximity to Kugluktuk which results in easier access for the residents of the community to retrieve gravel and also minimizes costs to the contractors and the Hamlet due to the fact that the dump trucks do not need to travel long distances. There are existing access roads to both quarry sites. The Hamlet did explore other quarry sites but felt this was the best option due to the reasonable proximity to Kugluktuk, its gravel reserves and the quality of the gravel.

Uivviititut: Les carrières de Kugluktuk serviront à l'extraction de granulats (gravier, sable, etc.) pour répondre aux besoins en construction de la collectivité. Ces sites se trouvent au sud-ouest de Kugluktuk. Si le projet est approuvé, l'équipement qui sera utilisé sur place consistera en des camions à benne, des concasseurs et des chargeuses qui serviront respectivement à transporter, à fragmenter et à extraire le granulat. Les carrières seront exploitées jusqu'à l'épuisement du granulat. Le hameau utilisera les revenus des permis d'exploitation pour restaurer les sites afin que la végétation puisse y repousser. Les sites en question contiennent de bonnes quantités de gravier, de sable et de silt pouvant servir à la construction et à l'entretien des routes, ce qui fait d'eux des terrains convoités. Les sites se trouvent à une distance raisonnable de Kugluktuk; il sera donc facile pour les résidents de se procurer du gravier. De plus, cela réduira les coûts pour les entrepreneurs et pour le hameau, car les camions à benne n'auront à voyager que sur une courte distance. Il existe déjà des voies d'accès aux deux carrières. Le hameau a étudié d'autres sites possibles, mais il considère ceux-ci comme la meilleure option, en raison de leur proximité à Kugluktuk ainsi que de la quantité et de la qualité du gravier qui s'y trouve. Je vous prie d'agréer l'expression de mes sentiments les meilleurs.

[illegible]

Inuinnagtun: Ukuat Kugluktumi ujaraliaqtarviit atuqtauniatun amuhijaami ujaralianik (ujaraliat, hiurat aallallu...) hailihimajaanginni nappaqtiirnikkut ihiariagijaujuni nunallaami. Hapkuat ujaraliaqtarviit ittun hivuraani-uangani Kugluktumi. Akhaluutirjuat hapkuat havangniaqtun ujaraliaqtarvingmi angiqtaukpata agjaqtautit akhaluutit agjariami ujaralianik, pilurjaktirijiit ahiruqtirijaami ujaranik pualrihautillu amuhijukhat ujaralianik. Hapkuat uraliaqtarviit atuqtaraanginnarniaqtun talvunga ujaraliaqtarviit nunguttaukpata. Haamlatkut aturniaqtait maniliurutit talvannga Ujaraliaqtarvingmin laisikkut akingit pinnirharnirnun nunami talvunga nunaup nauttiangit nauffaalirianginnun. Hapkuat ujaraliaqtarviit pilgit ujaralianik, hiurarnik pujutun-ittunin hiurarnin nakuujun nappaqtiirnikkut hulidjutiknun apqutinilu ihuarhaidjtikhanun nakuujuni amigainninginni pidjutijun hapkuninga ujaraliaqtarvingni pijumajauulluarviujunik. Hapkuat ujaraliaqtarviit qanittun Kugluktumun pidlutiplituk ajurnaitqijamik pijaami nunallaamiutanun ujaraliaqtariami taimaalu akittuqtivallaangitait akinginnun kaantraaktinun Haamlatkunnullu talvannga akhaluutirjuat ungahiktuliangidjutainnun. Pilik tahamaniittuni apqutikhanik tamarmingnun ujaraliaqtarvingnun. Haamlatkut naunaijaqpaktait aallat ujaraliaqtarvikhat kihimi ihumagijun una nakuutqijaujuq

qanuriliurutikhaq qanitqijaungmat Kugluktukmun, ujaraliakhat amigainmata
nakuungmallu ujaraliakhaq.

Personnel

Personnel on site: 3

Days on site: 1500

Total Person days: 4500

Operations Phase: from 2021-01-23 to 2031-01-23

Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannguqtut akhuurninnga	Qanitqiayuyuq qanitqiamut nunallaat kitulluuniit ahiruqtaiiyainnit nuna
Lot 572 Plan 3925	Quarry/Borrow pit	Municipal	Site has been used and continues to be used as the primary location for the Hamlet's quarry material.	n/a	Site is located within 4 km of the Hamlet's core.
501-SK-QUA-Site1	Quarry/Borrow pit	Commissioners	The Hamlet of Kugluktuk has used this site in the past to quarry fine material for the construction needs.	n/a	Site is located within 2 km of the Hamlet's core. Site lies outside surveyed airport lot.

Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Kugluktuk	Chris Saleem - Planning Lands Officer	Hamlet of Kugluktuk	2021-02-16
Kugluktuk	Kimberly Young - SAO	Hamlet of Kugluktuk	2021-02-07

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

Kitikmeot

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Nunavut Kavamanga, Nunalingni Kavamatkunnilu Pivikhaqautikkut	Authorization confirming that no other permits are required and to confirm that the application can proceed to screening with NIRB.	Active	2021-03-02	

Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Land	dump trucks, light vehicles	

Project accomodation types

Alaanut,

Ihuaqutivaluin Atuqtauyukhan

Hanalrutit atuqtaunahuat (ukuallu ikuutat, pampiutainnik, tingmitinik, akhaluutinik, hunaluuniit)

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
Loader	1	5.7m x 2.7m	excavate quarry material
Dump Truck	1	2.5mx3.4m	Haul quarry material
Water Truck	1	10 tons	Dust control
Crusher	1	15 tons	to crush large material

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Gasoline	fuel	1	1	1	Liters	Fuel will be provided by the Hamlet's facilities and supplies. There will be no storage of fuel on site.
NA	hazardous	1	0	0	Liters	There will be no storage of hazardous material on site.

Imaqmik Aturninnga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqittagaani qanuq	Atulirumayain imavaluin utiqittagani humi
0	n/a	n/a

Iqqakuq

Ikkakunik Munakgiyauyunik

Havauhikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Quarry/Borrow pit	Atakuin (halumaiqtun nunan, iqqakuuvaluillu uyaqqiqivingmin)	unknown	will be spread on land at the site	n/a

Avatiliriniqmut Ayurhautingit:

Accidental leaks and spillages of substances such as fuel or petroleum-based lubricants - if this occurs the Hamlet 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. Noise and vibration effects from rock crushing/breaking and machinery.

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

No known carving stone deposits are located in this area. If a carving stone deposit is located then extraction of aggregate will cease until the Municipality decides what they wish to do. The extraction of the aggregate will go down 1-3 meters. Should flooding become an issue, drainage ditches will be constructed to promote drainage away from the pit. We will continually monitor erosion or potential for erosion and implement control measures to minimize erosion. Minor slumping may occur to the landscape due to the extraction of aggregate but will be levelled off once the quarry is depleted. No evidence of ice lenses in the area. We currently do not blast and do not foresee having to blast. We will inform the public about the sight, and post signs around the site about the safety. Staff will also follow WSCC safety regulations around the site and area. Once this site is depleted of essential aggregate, the quarry will be levelled off to avoid any steep ditches using sand, silt and any other undesirable aggregate

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

Qanurittuq Ittunik Avatinga: Avatingalluanga

Air quality – Appears excellent. There is no reason to believe that air quality should not be excellent. Climate conditions and predicted future climate trends – The arctic is undergoing apparent raise in average temperature in the long term. This will have no incidence of this quarry. Noise levels – Noise level is of low concern but will be typical of such heavy equipment.

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

Wildlife, including habitat and migration patterns – No wildlife observed, although any wildlife observed will be respected at all times during the work. Birds, including habitat and migration patterns – No birds observed, although any wildlife observed will be respected at all times during the work.

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

Archaeological and culturally significant sites (e.g. pingos, soap stone quarries) in the project and adjacent areas – None observed. Land and resource use in the area, including subsistence harvesting, tourism, trapping and guiding operations – The area surrounding the quarry areas is used as a gravel extraction activity. There are no subsistence harvesting or tourism activity within the surrounding quarry areas.

Miscellaneous Project Information

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit

Excavation of material at the identified sites will expose underlying permafrost to warming and may cause permafrost thaw and slumping. Currently the area is surrounded by Thermokarst. Mitigation measures will be in place to limit or prevent excessive thaw such as: ensuring positive drainage away from the pit face and restricting excavation to the active layer in shallow sources.

Tamatkiumayunik Ihuikgutivaktunik

The overall cumulative effects are good: a good source of granular material was found, its development will provide a good source of gravel for the Hamlet and its development will provide employment in Kugluktuk. No negative regional or cumulative economic effects associated with the quarries were identified.

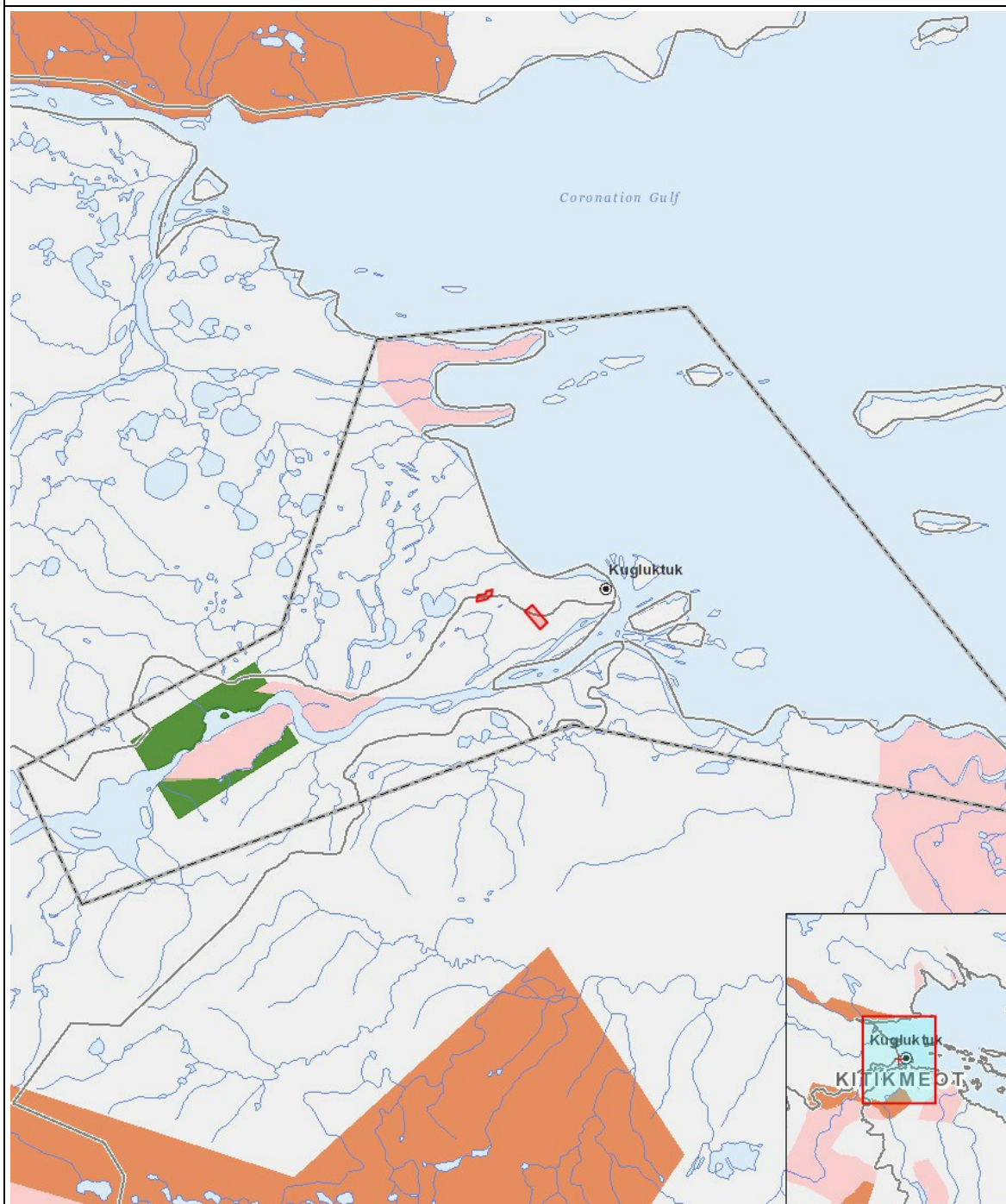
Impacts

Ilitariyauniq Avatiliriniqmut Ayurhautingit

	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
Havakvinga	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aulapkaininnga	Quarry/Borrow pit	-	N	-	-	-	-	-	-	-	-	-	N	-	N	-	-	-	-	-	U	P	-	P	-
Piiqtauniq	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(P = Nakuuyuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyauyuq)

Havaariyauyukhamut Nayugaa



List of Project Geometries

1	polygon	501-SK-QUA-Site1
2	polygon	Lot 572 Plan 3925