ᓄᓇᕗᒻ ᐊᐸᑎᓕᓇᖅᑯᑦ ᑲᑎᒪᔨᖏᑦᑎᒍᑦ ᑐᓴᖅᑐᑦ ᖃᒥᖅᑭᕗᖅᓴᖅ #125637

Taloyoak Quarry Sites

ᑐᓴᖅᑐᑕᐅᔪᖅ ᖃᓄᐃᓕᓐᓂᖅ:	New
ᐱᓕᓇᐊᓇᕗᐅᔪᒪᔪᑦ ᖃᓄᐃᓕᓐᓂᖅ:	Pits and Quarries
ᐅᕙᓪᓕᖅ ᑐᓴᖅᑎᓕᐊᕐᓂᐅᔪᓂ:	8/31/2021 3:55:19 PM
Period of operation:	from 0001-01-01 to 0001-01-01
ᖃᔪᓴᖃᐃᔨᐅᓂᐊᖅᓯᒋᕗᐅᔪᓂ:	from 0001-01-01 to 0001-01-01
ᐱᓕᓇᐊᖏᖃᒪᔪᖅ:	Danny Zita Government of Nunavut PO Box 272 Kugluktuk Nunavut X0B 0E0 Canada ᐅᖏᖃᓕᐅᑎᑦ: (867) 982-7661, ᓯᖃᔨᓄᑦ:

ᑐᓴᐅᒪᓗᑦᓴᑦ

ᖃᓄᐃᑦᑐᑎᓂᐊᕐᓂᖅᓯᐊᓂᐊᖏᓐᓂᖅ

ᖃᑦᓗᓵᑎᑐᑦ: The Taloyoak quarry deposits sites will be used to extract aggregate (gravel, sand etc...) to meet the construction demands of the community. These sites are located primarily north and north-west of Taloyoak. 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 Taloyoak 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.

ᐅᐃᐦᐃᑎᑐᑦ: Les carrières de Taloyoak serviront à l'extraction de granulat (gravier, sable, etc.) pour répondre aux besoins en construction de la collectivité. Ces sites se trouvent principalement au nord et au nord-ouest de Taloyoak. 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 Taloyoak; il sera donc facile pour les résidents de se procurer du gravier. De plus, cela réduira les couts 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.

ᐃᓄᐦᑎᑐᑦ: ᖃᐅᖅᓗᖅᑐᖅᑎᒥ ᐅᐸᖅᐃᓂᖅᑎᒥ ᐃᓂᕐᑭᑦ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᑦ ᐋᕐᐃᓗᑎᐦ ᑲᑎᖅᓯᖅᑕᐅᓂᕐᓭᓚᐅᓂᖅ (ᑐᐊᐸᑦ, ᓂᐅᖅᑦ ᐊᓂᕐᑭᓗ...) ᐱᑎᑭᓗᑦ ᓴᓇᔨᓕᓂᖅᓯᒍᑦ ᐱᕐᓇᐊᓕᑭᑦ ᓄᓇᓕᕐᒥ. ᑕᒪᐦᐃᐊ ᐃᖅᓴᓗᐃᑦ ᓂᑎᖅᐸᓂᐊᖅᑐᑦ ᐅᓂᖅᑕᐅᔪᓂᑦ ᐅᓂᒃᑕᐅᑎᒃᑦ ᑐᐊᐸᕐᓂᐊᖅᑐᑦ ᐊᕐᑎᖅᑕᐅᔪᓂᑦ ᐅᓂᒃᑕᐅᑎᒃᑦ ᑐᐊᐸᕐᓂᐊᖅᑐᑦ ᐅᓂᖅᑎᑭᓗᑦ, ᓂᖅᓴᑦᓂᑎᓇᔭᐸᑦ ᓂᖅᓴᓂᖅᑎᑭᓗᑦ ᐊᒪᓚᓗ ᕿᐊᖅᓇᓂᑦ ᑐᐊᐸᓂᓇᖅᑎᑭᓗᑦ.ᑕᒪᐦᐃᐊ ᑐᐊᐸᐦᑕᖅᐱᐅᕐᓄᓇᖅᑎᖅᑐᑦ ᑭᓂᐊᓄᓂᖅ ᓄᓕᐅᐦᐃᑎᑦ. ᕼᐋᒪᓚᓂᐦᐃᑎᑦ ᑐᐊᐸᐦᑕᖅᐱᐅᕐᓄᓇᖅᑎᖅᑐᑦ ᑐᐊᐸᐦᑕᖅᐱᐊᓕᒥᑦ ᐱᐦᑎᖅᑐᑦ ᑐᐊᐸᐦᑕᖅᐱᐊᓕᐸᑦ ᐱᐦᑎᖅᑐᑦ ᐊᑭᖅᑭᐅᓂ

ᐱᓪᓇᐊᓇᔨᐅᓂᐊᖅᑐᑦ

ᓂᒥ	ᖃᓄᐃᓕᒋᑎᑦ ᐱᓪᓇᐊᖅᓴᓂᐊᖅᐸ	ᑭᓱᑯᑦ ᓄᓇᕗᒻᒥᓂ	ᑐᓴᐅᒪᔨᓱᓴᑦ ᓄᓇᐅᑦ ᖃᑐᒃᐅᓪᓗᐅᖅᓯᒪᔨᓇᐊᖅᑐᓂᓱᓄᑦ	ᐃᑦᓴᓂᓪᑕᖅᓴᖅᐃᐅᓕᓪᐅᖅᐸ ᐃᓄᖅᓄᑦ ᓂᔾᔪᑕᑦᑕᓂᓗᒍᓗ ᑕᐃᑦᓯᒪᓂᑐᖅᑐᖅᑐᑦ	ᖃᓄᖅᓂᓂᖅᐸᖅ ᓄᓇᓕᑭᐅᔨᕐᖅ ᐊᒡᒪᓗ ᓴᐳᒻᒥᑦᓯᐃᐅᓕᓗ ᓯᓇᓄᑦ
Lot 393 Plan 4648	Quarry/Borrow pit	Municipal	N/A	N/A	1.8km
Lot 394 Plan 4648	Quarry/Borrow pit	Municipal	N/A	N/A	1.8km
Lot 400 Plan 4688	Quarry/Borrow pit	Commissioners	N/A	N/A	2km
Lot 401 Plan 4688	Quarry/Borrow pit	Commissioners	N/A	N/A	2km
Lot 395 Plan 4647	Quarry/Borrow pit	Commissioners	N/A	N/A	400m
Lot 396 Plan 4647	Quarry/Borrow pit	Commissioners	N/A	N/A	400m

ᓄᓇᕗᑦ ᐃᓕᑦᖃᑕᐅᓂᖓ ᓄᓇᓕᓪᓗ ᐊᐱᑐᒍᓱᓕᑦᓂᖓᓄᓕᓄᑦ ᐃᑲᔪᑕᑦᔪᓐᓇᖅᑐᑦ

ᓄᓇᕗᑦᓱᖅ	ᐊᑎᑦ	ᑲᑐᔨᐊᖃᖅᑎᑎᑦᓱᖅ	ᖃᖅᖁᓗ ᑐᓴᖅᑎᑕᐅᓇᐊᖃᖅᑎᓂᖅᐸᑦ
ᑕᓗᖅᔪᐊᖅ	Violetta Charlie - PLA	Hamlet of Taloyoak	2021-09-02
ᑕᓗᖅᔪᐊᖅ	Janice Anderson - SAO	Hamlet of Taloyoak	2021-09-02

ᓇᐃᔭᖅᓯᒪᓕᕆᔨᒃᑯᓂᖅ ᐱᒋᐊᕐᓂᐅᑎᒃ ᐊᐅᖏᖅᑕᐅᓯᒪᔪᖅ

ᓄᑎᐅᕐᖏᓂᑦ ᐱᓕᓇᐊᓇᓴᕆᐅᓂᐊᖅᑐᑦ ᑎᑎᕋᓗᐊᖅᑕᑦ:

Kitikmeot

ᓇᐃᔭᖅᓯᒪᓕᕆᔨᒃᑯᓂᖅ ᐱᒋᐊᕐᓂᐅᑎᒃ ᐊᐅᖏᖅᑕᐅᓯᒪᔪᖅ

ᑲᓴᒪᑎᔨᐅᔪᑦ ᐊᕐᕕᑐᑐᒍᓐᓇᐅᑉ ᒪᓕᑲᓕᐊᕐᓂᖅ ᐱᓕᕆᓂᐊᓕᖅᓯᒪᓂᖅ ᑲᒪᒋᔨᖅ ᐱᔪᓐᓇᖅᑐᑎᓂᖅ ᓇᐃᔭᖅᓯᒪᓂᖅ ᐊᐅᖏᖅᑕᐅᓯᒪᔪᖅ	ᖃᓄᐃᓕᑐᖅᓯᓇᐅᑉ ᓇᐃᔭᖅᓯᒪᓂᖅ ᐱᒋᐊᕐᓂᐅᑎᒃ ᐊᔪᕐᓇᐅᑎᓂᖅᑐᖅ ᐊᐅᖏᖅᑕᐅᓯᓕᕆᔨᖅ	ᐃᓐᓇ ᖃᓄᐃᓕᓚᖅᓯᒪᔪᖅ	ᐅᖃᓕᒫᖅ ᑐᓂᔨᖅ/ ᑐᓴᕐᓂᑐᑎᑦᓯᐅᑎᓂᖅᓯᒪᔪᖅ	ᑭᓚᖃᖅᑲᐃᓐᓇ
Government of Nunavut, Community Government & Services	CGS Authorization Letter - Taloyoak Quarry Sites	Active	2021-09-02	

Project transportation types

Transportation Type	ᓄᓇᒧᑦ ᐊᑐᓴᐅᓂᐊᖅᓱ	Length of Use
Land	Dump trucks, light vehicles	

Project accomodation types

ᓄᓇᓕᕆᔨᖅ

ᐊᑐᓚᐅᓂᐊᖅᑐᖅ

ᐱᖃᑦ ᐊᖏᕆᔨᖅ ᐊᑐᖅᑕᐅᓂᐅᓴᔨᖅ ᐃᓕᖅᓭᐅᑎᓄᕆᑦ ᐃᓱᑕᐃᑦ, ᒥᓪᓄᐊᑭᑏᑦ, ᖃᖅᓚᑕᓱᖅ, ᓄᓇᓭᐅᑦ ᐊᓱᖏᓪᓄ

ᐊᖏᕆᔨᖅ ᐱᖃᑦ ᐊᑐᓚᐅᓂᐊᖅᑐᖅ ᖃᓄᐅᔪᑦᑐᓂᖅ	ᖃᖅᑎᓭᐅᓕᑦ	ᐊᖏᕆᓂᖏᑦ - ᐳᖅᑐᓂᖏᑦ	ᓭᓇᒧᑦ ᐊᑐᓚᐅᓂᐊᖅᓯ
Loader	1	5.7m x 2.7m	excavate quarry material
Dump Truck	1	2.5m x 3.4m	Haul quarry material
Water Truck	1	10 tons	Dust control

ᑎᑎᕆᐅᓭᓇᔪᒍ ᐅᖅᓭᓴᕐᐃᑦ ᐊᑦᑕᓇᖅᑐᖅᑕᓪᓗᓂᓪ ᐊᑐᖅᑕᐅᓂᐊᕐᓂᖏᑦ

ᓭᓇᒧᑦ ᐅᖅᓭᓴᕐᑎᕈᐊᖅ ᐊᑐᓚᐅᓂᐊᖅᓯ	ᖃᖅᑐᓂᓕᕆᓇᐅᔭᖅ ᐅᖅᓭᓴᕐᑎᕈᐊᖅ	ᖃᖅᑎᓭᐅᔪᖅᑲᐅᑎᑦ	ᐃᓕᖅᑲᓂᐅᔪᓕᕐᓂᖅᓴᖅ	ᑲᑎᓪᓗᒍ	ᐃᓴᖅᓴᐃᑦ ᐊᒥᓱᓂᖏᑦ	ᓭᓇᒧᑦ ᐊᑐᓚᐅᓂᐊᖅᓯ
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.

ᐃᓕᖅ ᐊᑐᖅᑕᐅᓭᐸᓗᖅᑐᖅ

ᐅᓪᓗ ᑕᒪᖅ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᖅ	ᖃᖅᓂᖅ ᐃᒥᖅᑕᖅᖃᑕᖅᓂᐊᖅᓯᑦ	ᓂᑭᑦ ᐃᒥᖅᑕᖅᖃᑕᖅᓂᐊᖅᓯᑦ
0		

ᐊᑲᑕᔪᑦ

ᐊᑲᑕᔪᓪᓗᓂᐊᕐᓂᖅ

ᐱᓪᓗᐊᓗᐅᐅᔾᓚᔾᔪᑎᑦ ᐱᓪᓗᐊᓗᐅᐅᓂᐊᖅᑐᖅ	ᖃᐅᓂᐃᑦᑐᖅ ᐊᑲᑕᔪᖅ	ᖃᐅᓂᑎᒋ ᐊᑲᑕᔪᑦ ᓴᖅᑭᐊᓂᐊᖅᑐᓗᐅᐅᔾᔨᑦ	ᖃᐅᓂᖅ ᐊᑲᑕᖅᑕᐅᓂᐊᖅᓯ	ᓴᓗᒻᒪᖅᓴᐅᑎᑲᓴᐅᖅᓂᐅᓂᐊᖅᑐᑦ
Quarry/Borrow pit	ᐅᔾᕿᐃᔾᐃᓂᖅ ᓄᓇᒥᑦ ᓄᑎᓇᓂᖅ ᐊᑐᐸᐅᔪᓐᓇᔭᖏᑦᑐᓂᒃ, ᓇᒃᓱᕿᓗᔪᓂᒃ	unknown	will be spread on land at the site	n/a

ᐊᔪᑎᒥᐅᑕᓂᕐᑐᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᑦ

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

ᐃᒡᓗ ᐊᕐᑎᐅᑦ ᖃᓄᐃᑦᑐᑦᓯᔾᔨᕐᓂᖓ: ᓄᓇᐅᑦ ᖃᓄᐃᑦᑐᖓᓂ

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.

ᐃᒡᓗ ᐊᕐᑎᐅᑦ ᖃᓄᐃᑦᑐᑦᓯᔾᔨᕐᓂᖓ: ᐅᒪᔨᖏᑕᖃᖅᓂᖓ

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.

ᐃᒡᓗ ᐊᕐᑎᐅᑦ ᖃᓄᐃᑦᑐᑦᓯᔾᔨᕐᓂᖓ: ᐃᓄᓕᓇᓂᕐᒧᖏᓐᓄᑦ-ᐱᕐᓕᐊᔪᓕᓇᓂᕐᒧᖏᓐᓄᑦ

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

ᓂᓗᓂᐃᖏᑕᐅᓂᖅᑎᑦ ᐊᒃᑐᖏᑕᐅᓯᒪᔨᑦ ᖃᓄᐃᑦᑐᓂᖅᑎᑦ ᕿᓚᐅᑎᓪᓗᖏᑕᐅᓂᐊᖑᓂᖅᓴᓗ

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.

Cumulative Effects

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 Taloyoak. No negative regional or cumulative economic effects associated with the quarries were identified.

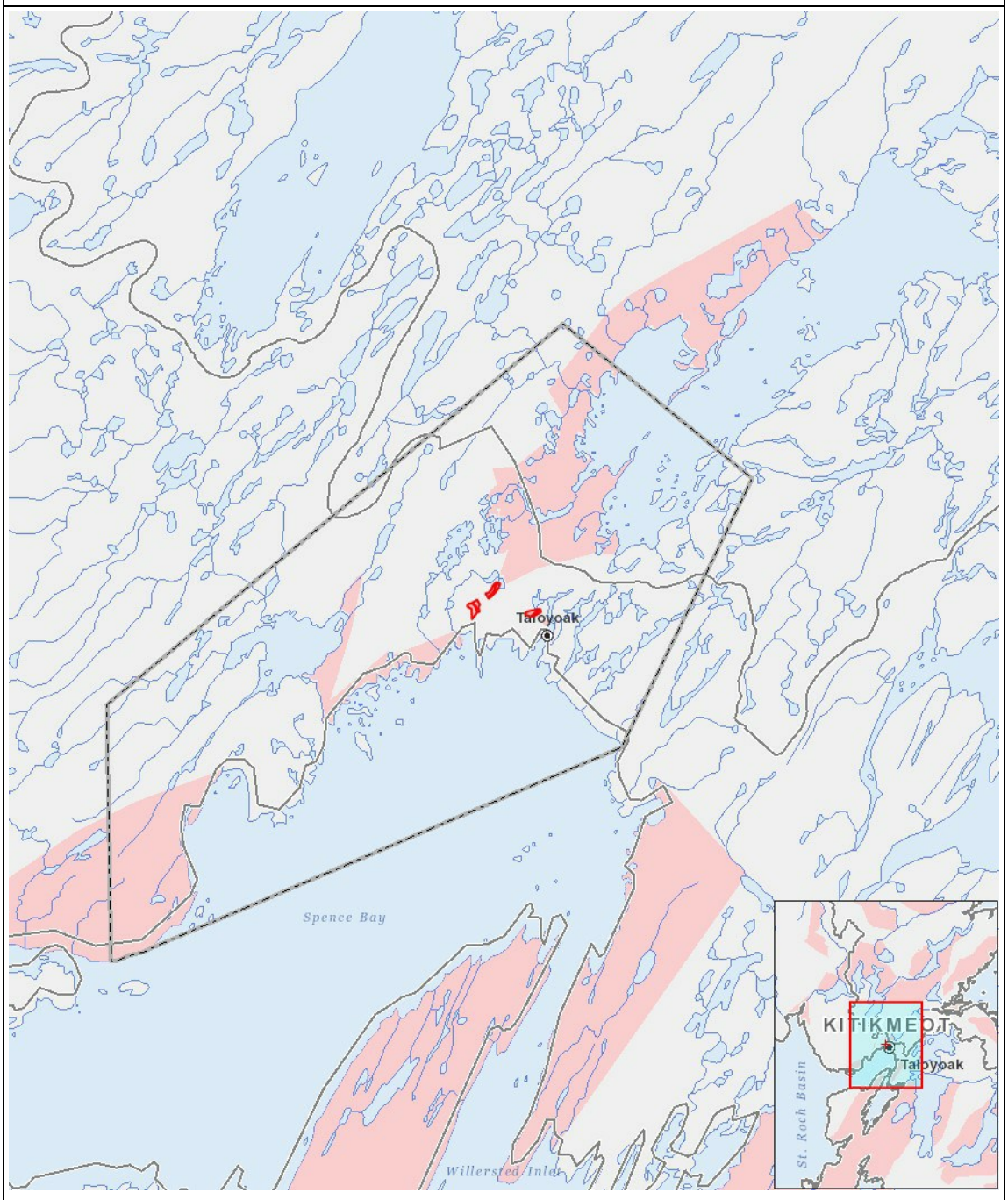
Impacts

ᓄᓗᓄᐃᖅᑕᐅᓂᖅᑎᑦ ᐊᕐᑎᑎᒥᐅᑕᓂᑐᑦ ᐊᑲᑐᖅᑕᐅᓯᒪᔪᑦ

	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
ᓴᓇᓂᖅ																									
-			-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
ᐅᔨᕋᑲᑕᕋᓂᖅ																									
Quarry/Borrow pit			-	M	-	-	-	-	-	-	-	-	-	M		M	-	-	-	-		U	P	-	P	-
ᐃᑐᑦᑎᓇᓂᖅ																									
-			-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

(P = ᐊᑲᐅᓯᕈᑎᔪᓐᓇᖅᑐᑦ, N = ᐊᑲᐅᖅᑭᔨᔪᑕᐅᔪᓐᓇᖅᑐᑦ ᕿᓚᐅᒥᔨᔪᓂᖅᑐᑕᐅᔪᓐᓇᖅᑭᖅᑐᑦᓗ, M = ᐊᑲᐅᖅᑭᔨᔪᑕᐅᔪᓐᓇᖅᑐᑦ ᕿᓚᐅᒥᔨᔪᓂᖅᑐᑕᐅᔪᓐᓇᖅᑐᑦᓗ, U = ᖁᑲᐅᕈᒪᓐᓇᖅᑭᑐᖅ)

ᓇᒋᒪᖏᕆᖅ ᐱᓕᓇᐊᓇᖅᑐᐅᔪᖅ



List of Project Geometries

1	polygon	Lot 400 Plan 4688
2	polygon	Lot 401 Plan 4688
3	polygon	Lot 393 Plan 4648
4	polygon	Lot 394 Plan 4648
5	polygon	Lot 395 Plan 4647
6	polygon	Lot 396 Plan 4647