Demande de la CNER faisant l'objet d'un examen préalable #125535 Baker Lake quarry #1

Type de demande :	New
Type de projet:	Pits and Quarries
Date de la demande :	6/2/2020 2:57:58 PM
Period of operation:	from 0001-01-01 to 0001-01-01
Autorisations proposées:	from 0001-01-01 to 0001-01-01
Promoteur du projet:	Randy Mercer Government of Nunavut P.O. Box 490 Rankin Inlet Nunavut X0C 0G0 Canada Téléphone :: 867-645-8115, Télécopieur :: 867-645-8143

DÉTAILS

Description non technique de la proposition de projet

Anglais: Baker Lake quarry #1 is a site currently being used by the Hamlet of Baker Lake and members of the public to extract aggregate (gravel, sand, rock, riprap etc.) to meet the construction demands of the community. The use of the aggregate will vary widely. The Hamlet will use it municipal purposes such as road construction and maintenance. The public will use it for private purposes. The site will be used in the summer months (June-September) of each year until all the aggregate is extracted. The frequency of use will depend on the construction projects in Baker Lake for that year. The quarry is located 2.6 kilometers west of the community of Baker Lake and 2.2 kilometres west of the Inuujaarvik Territorial Park.This site is already being used for quarrying purposes. The exact date of its first use is not known but it is estimated to have occurred in the early 1980's. The total volume of quarry material that was taken from the site is not known.All the aggregate within the quarry is loose soil; extraction will be done by CAT excavators and wheel loaders. Dump trucks of varying make and models will be used to haul aggregate to and from the quarry site. No blasting of rock outcrops is planned. There is an estimated volume of 200,000 cubic metres of material left in the quarry.There is an existing road that branches off the main road from the Baker Lake airport terminal to the community of Baker Lake that will be used to access this quarry. The use of the main road and the road to the quarry site is used frequently by both the Hamlet and members of the public.The quarry is located on untitled municipal land which is administered by the department of Community and Government Services (CGS). Once approval for this the site is obtained, CGS will go into a quarry administration agreement (QAA) with the Hamlet which allow the Hamlet to issue quarry permits instead of CGS. The Hamlet will stockpile the aggregate and then members of the public will obtain quarry permits from the Hamlet. The fees from these quarry permits will be stored in a Hamlet financial account which will be used to maintain the road to the quarry site, cover administrative costs, and to remediate the quarry.After the quarry is depleted, the Hamlet will smooth out the edges of the site to ensure no steep inclines are present. Vegetation that was present prior to the use of the site will grow back over time.Due to its proximity to the community of Baker Lake, its estimated volume, and the existing road that reaches the site, makes it a desirable site for the extraction of quarry material for the Hamlet of Baker Lake and the public.

Français: Not applicable

Inuktitut: ᖃᒪᓂ'ᑐᐊᒥᑦ ᑐᐊᐸᒃᑕᕐᕕᒃ #1 ᒫᓐᓇ ᐊᑐᕐᑕᐅᕚᒃᑐᖅ Hᐋᒻᓚᑦᑯᓐᓄᑦ ᖃᒪᓂ'ᑐᐊᒥᑦ ᐃᓚᒋᔭᓄᓪᓗ ᑭᒃᑯᑐᐃᓐᓇᖕᓄ ᑐᐊᐸᒃᑕᕐᑐᓂᑦ (ᑐᐊᐸᒃ, ᓯᐅᕋᖅ, ᐅᔭᕋᖅ, ᐊᓯᖏᓪᓗ) ᓴᓇᔭᐅᕚᓪᓕᐊᕚᒃᑐᓄᑦ ᓄᓇᓕᖕᓂᑦ. ᐊᑐᖅᑕᐅᓂᖓ ᑐᐊᐸᐅᑉ ᐊᔾᔨᒌᙱᑦᑐᓂᑦ ᖃᓄᑐᐃᓐᓇᖅ ᐱᔭᐅᔪᓐᓇᕐᓂᐊᖅᑐᖅ. Hᐋᒻᒪᓚᒃᑯᓐᓄᑦ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᖅ ᐊᖅᑯᑎᓕᐅᖅᑎᓪᓗᒥᑦ ᐊᒻᒪ ᐋᖅᑭᐅᒪᔾᔪᑎᒥᔭᐅᓗᓂ. ᐃᓄᐃᑦ ᑭᒃᑯᑐᐃᓐᓇᐃᑦ ᐊᑐᕈᓐᓇᕐᓂᐊᖅᑐᖅ ᐊᑐᕈᒪᔭᖓᓐᓄᑦ. ᑐᐊᐸᒃᑕᕐᕕᒃ ᐊᐅᔭᒃᑯᑦ (ᔫᓂ-ᒥᑦ-ᓯᑎᐱᕆ-ᒧᑦ) ᐊᑐᖅᑕᐅᖃᑦᑕᕐᓂᐊᖅᐳᖅ ᐊᕐᕌᒍᑕᒫ ᑐᐊᐸᖓ ᓄᖑᓐᓇᓯᐊᕐᓂᖓᓄᑦ. ᐊᑐᖅᑕᐅᒐᔪᖕᓂᖓ ᒪᓕᖕᓂᐊᖅᐳᖅ ᓴᓇᔭᐅᔪᒃᓴᒥᑦ ᖃᒪᓂ'ᑐᐊᒥᑦ ᑕᐃᑲᓂ ᐊᕐᕌᒍᒥ. ᑐᐊᐸᒃᑕᕐᕕᒃ ᐅᖓᓯᒃᑎᒋᔪᖅ 2.6 ᑭᓚᒦᑕᑦ ᐱᖓᖕᓇᖅᐸᓯᐊᓂ ᓄᓇᓕᖕᓂᑦ ᖃᒪᓂ'ᑐᐊᑉ ᐊᒻᒪᓗ 2.2 ᑭᓗᒦᑕᑦ ᐱᖓᖕᓇᖅᐸᓯᐊᓂᑦ ᐃᓅᔭᕐᕕᒃ ᓄᓇᕗᒻᒥᑦ ᒥᕐᖑᐃᖅᓯᕐᕕᖕᒥᑦ.ᑖᓐᓇ ᐃᓂᒋᔭᐅᔪᖅ ᐊᑐᕐᑕᐅᕐᕌᓂᒃᑐᖅ ᑐᐊᐸᓕᕆᓂᖕᓄᑦ. ᐅᓪᓗᓪᓚᑦᑖᖓ ᓯᕗᓕᖅᐹᒥ ᐊᑐᕐᑕᐅᕐᖓᕐᓱᓂ ᓇᓗᔭᐅᔪᖅ ᑭᓯᐊᓂ ᓇᓚᐅᑦᑖᕐᑕᐅᓯᒪᔪᖅ ᐃᒻᒪᖃ ᐱᒋᐊᖕᓂᖏᓐᓂᑦ 1980. ᑲᑎᔅᓱᒋᑦ ᑐᐊᐸᒃᑕᕐᑕᑦ ᑕᒡᕙᙵᑦ ᓇᓗᔭᐅᔪᖅ.ᑖᓐᓇ ᑐᐊᐸ ᐱᔭᐅᔪᖅ ᐅᔭᕋᓛᑦ; ᑖᒃᑯᓇᙵᑦ CATᒃᑯᑦ ᐸᒃᑲᐅᑎᖏᓐᓄᑦ ᐊᒻᒪ ᐅᓯᑲᖅᑕᐅᑎᖏᓐᓄᑦ ᐱᔭᐅᓂᐊᖅᑐᑦ. ᐅᓯᑲᖅᑕᐅᑏᑦ ᐅᖁᒪᐃᑦᑐᓂᑦ ᐊᔾᔨᒌᙱᑦᑐᑦ ᐊᖏᓕᕇᑦ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᑦ ᐊᓯᔾᔨᑕᐅᓗᑎᑦ ᐅᔭᕋᑦᑕᕐᔪᒥᑦ. ᖄᖅᑎᑦᑎᖃᑦᑕᔾᔮᖕᒥᑦᑐᑦ ᑕᒫᓂ. ᓇᓚᐅᑦᑖᕐᑕᐅᓯᒪᔪᕐᓕ 200,000 ᑭᑉᐹᕆᒃᑐᑦ ᒦᑕᑦ ᑐᐊᐸᑦ ᐊᒥᐊᒃᑯᑦ.ᐊᖅᑯᑎᑕᖄᓂᒃᑐᖅ ᓴᖑᖓᔪᖅ ᓯᓚᑖᓂ ᐊᖅᑯᑎᐅᑉ ᖃᒪᓂ'ᑐᐊᑉ ᒥᑦᑕᕐᕕᐊᓂᑦ ᓄᓇᓕᐊᓄᑦ ᖃᒪᓂ'ᑐᐊᒧᑦ ᐊᑐᕐᑕᐅᖕᓂᐊᕐᑐᖅ ᑐᐊᐸᒃᑕᕆᐊᒧᑦ. ᐊᑐᖅᑕᐅᓂᖓ ᐊᖅᑯᑎᓪᓗᐊᑕᐅᑉ ᐊᒻᒪᓗ ᐊᖅᑯᑦ ᑐᐊᐸᒃᑕᕐᕕᖕᒎᖓᔪᖅ ᐊᑐᖅᑕᐅᒐᔪᒃᑐᖅ ᑕᒪᐃᓐᓄᑦ Hᐋᒻᓚᑦᑯᓐᓂᑦ ᐃᓚᒋᔭᓄᓪᓗ ᑭᒃᑯᑐᐃᓐᓇᖕᓄᑦ.ᑐᐊᐸᒃᑕᕐᕕᒃᓴᖅ ᑕᐃᒎᓯᖃᙱᑦᑐᒦᑉᐳᖅ Hᐋᒪᓚᒃᑯᑦ ᓄᓇᖓᓂ ᓄᓇᓕᖕᓂ ᒐᕙᒪᒃᑯᓐᓂᓪᓗ ᐱᔨᑦᑎᕋᖅᑎᒃᑯᓐᓂ ᐊᐅᓚᑕᐅᓪᓗᓂ. ᐊᖏᖅᑕᐅᔾᔪᑎᒥᒃ ᐱᓯᒪᓕᖅᐸᑕ ᑐᐊᐸᒃᑕᕐᕕᒃᓴᒍᑦ, ᓄᓇᓕᖕᓂ ᒐᕙᒪᒃᑯᓐᓂᓪᓗ ᐱᔨᑦᑎᕋᖅᑎᒃᑯᑦ ᑐᐊᐸᒃᑕᕐᕕᖕᒥ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᖏᕈᑎᓕᐅᕐᓂᐊᖅᐳᑦ Hᐋᒪᓚᒃᑯᓐᓂ Hᐋᒪᓚᒃᑯᓪᓗ ᑐᓂᓯᔪᓐᓇᖅᓯᓂᐊᖅᓱᑎᒃ ᑐᐊᐸᒃᑕᕐᕕᒃᓴᒧᑦ ᐱᔪᓐᓇᐅᑎᒥᒃ ᓄᓇᓕᖕᓂ ᒐᕙᒪᒃᑯᓐᓂᓪᓗ ᐱᔨᑦᑎᕋᖅᑎᒃᑰᙱᖔᖅᑐᖅ. Hᐋᒪᓚᒃᑯᑦ ᑐᐊᐸᒃᑕᖅᑕᐅᔪᓂᒃ ᑲᑎᖅᓯᐃᓂᐊᖅᐳᑦ ᐃᓚᒋᔭᐅᔪᓪᓗ ᐃᓄᖕᓄᑦ ᑐᐊᐸᒃᑕᕈᓐᓇᐅᑎᑖᕐᓂᐊᖅᐳᑦ Hᐋᒪᓚᒃᑯᓐᓂ. ᑐᐊᐸᒃᑕᕈᓐᓇᐅᑎᑖᕈᑎᑦ ᐊᑭᓕᕆᐊᓛᑦ ᑐᖅᑯᖅᑕᐅᓂᐊᖅᐳᑦ Hᐋᒪᓚᒃᑯᑦ ᑮᓇᐅᔭᒃᑯᕕᖓᓄᑦ ᐊᑐᖅᑕᐅᓛᕆᓪᓗᑎᒃ ᑐᐊᐸᒃᑕᕐᕕᓕᐊᕆᐊᑉ ᐊᖅᑯᑎᖓᑕ ᑲᒪᒋᔭᐅᔾᔪᑎᖓᓄᑦ, ᐊᒡᓕᕝᕕᓕᕆᔾᔪᑎᓄᑦ ᐊᑭᓕᐅᑕᐅᓗᑎᒃ, ᐊᒻᒪ ᑐᐊᐸᒃᑕᕐᕕᐅᑉ ᐋᖅᑭᒥᐊᖅᑕᐅᓂᖓᓄᑦ.ᑐᐊᐸᒃᑕᕐᕕᒃ ᓄᖑᓯᒪᓕᖅᐸᑦ, Hᐋᒪᓚᒃᑯᑦ ᐊᖅᑯᑎᐅᑉ ᑭᒡᓕᖓᓂ ᖃᐃᖅᑲᒃᓴᐃᓂᐊᖅᐳᑦ ᓯᕕᖓᓂᖕᒥᑦ ᓴᖅᑭᔮᕈᓐᓃᖅᑎᓪᓗᒥᑦ. ᐱᕈᖅᑐᐃᑦ ᓴᖅᑭᔮᓚᐅᖅᑐᑦ ᑐᐊᐸᒃᑕᕐᕕᐅᓚᐅᙱᑎᓪᓗᒍ ᐱᕈᒃᑲᓐᓂᓛᖅᑐᑦ ᖃᑯᒍᒃᑲᓐᓂᖅ.ᐅᖓᓯᒃᑎᒋᓂᖓᓄᑦ ᓄᓇᓕᖕᓄᑦ ᖃᒪᓂ'ᑐᐊᒥ, ᓇᓚᐅᑦᑖᕐᑕᖅ, ᐊᖅᑯᓪᓗ ᑎᑭᑉᐸᒃᑐᖅ ᐃᓂᒋᔭᒧᑦ, ᓈᒻᒪᒃᑐᖅ ᑐᐊᐸᒃᑕᕐᕕᒋᓗᒍ Hᐋᒻᓚᑦᑯᓐᓄᑦ ᖃᒪᓂ'ᑐᐊᒥ ᑭᒃᑯᑐᐃᓇᖕᓄᓪᓗ.

Inuinnaqtun: Not applicable

Personnel

Personnel on site: 2
Days on site: 1800
Total Person days: 3600
Operations Phase: from 2020-03-29 to 2040-09-22

Activités

Emplacement	Type d'activité	Statut des terres	Historique du site	Site à valeur archéologique ou paléontologique	Proximité des collectivités les plus proches et de toute zone protégée
quarry boundary	Quarry/Borrow pit	Commissioners	The current use of this site is for quarrying purposes. It is estimated that this site was used as a quarry since at least the 1980's. Prior to that date, this site has no use.	This site has no archaeological or paleontological value.	This quarry is 3.6 kilometres west from the community of Baker Lake. The Inuujaarvik Territorial Park within lot 444 plan 4664 is located 2.2 kilometres east of the quarry site. No known protected areas within or around the quarry.

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Baker Lake	Sheena Iksiraq, Planning and Lands Administrator	The Municipal corporation of the Hamlet of Baker Lake	2020-06-02
Rankin Inlet	Randy Mercer, Manager, Lands Administration	Government of Nunavut-Dept. of CGS	2020-06-02

Autorisations

Indiquez les zones dans lesquelles le projet est situé:

Kivalliq

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Government of Nunavut, Community Government & Services	The quarry boundary is located on Untitled Municipal Land, which is administered by CGS. CGS is the applicant and we approve of this NIRB application.	Active		
Hamlets and Municipalities	Senior administrative officer with the Hamlet of Whale Cove gave consent to move forward with this application.	Active		

Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Land	There is an existing road that was and is still being used to access the site. CAT loaders, excavators and dump trucks will use this road.	

Project accomodation types

Collectivité

Utilisation de matériel

Équipement à utiliser (y compris les perceuses, les pompes, les aéronefs, les véhicules, etc.)

Type d'équipement	Quantité	Taille – Dimensions	Utilisation proposée
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
Track Excavator	1	10m(L) x 3.2m (H) x 3.2m (W)	excavate quarry material

Décrivez l'utilisation du carburant et des marchandises dangereuses

Décrivez l'utilisation de carburant :	Type de carburant	Nombre de conteneurs	Capacité du conteneur	Quantité totale	Unités	Utilisation proposée
Information is not available						

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
0		

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Information is not available				

Répercussions environnementales :

The natural vegetation such as moss and other arctic plants on the surface will be disturbed due to the extraction process of the aggregate. After the quarry is depleted of usable aggregate, the edges of the quarry will be smoothed out to prevent steep inclines. The Vegetation will grow back 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

•This quarry site will be used to extract quarry material such as gravel, sand, and rock. A CAT track excavator will be used to dig and loosen the soil for extraction. A CAT loader will be used to stockpile, and a CAT dump truck will be used to haul the aggregate to and from the quarry.•Extraction of aggerate is estimated to go down 3-4 metres.•The closest waterbody is located 2.1 kilometres east of the quarry.•There will be no blasting or washing in this activity but there will be stockpiling of 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

Description de l'environnement existant : Environnement physique

•The site is already being used for quarrying purposes. It was estimated this quarrying started in the early 1980's. Prior to quarrying there was no land use.•There is an existing road that branches of the main road between the community of Baker Lake and the terminal building that is and will be used to access this quarry site. •There is no evidence of ice lensing, Therokarsts, ground or rock instability and seismicity. •There are no heritage sites, sport and commercial fishing areas, migration routes, protected wildlife areas or sites of cultural or historical significance, or areas of natural beauty within or around the quarry boundary.•Surface and bedrock geology, permafrost, and, sediment and soil quality are not known.•There are no waterbodies in the immediate vicinity of the quarry boundary.

Description de l'environnement existant : Environnement biologique

•Since the current use of the site is used for quarrying purposes, the area has no vegetation due to the excavation process and has several stockpiles of aggregate. •300 metres west of the quarry site located on Lot 1001, Quad 66A/08 plan 2068 is a federal reserve under the name of Transport Canada for communication equipment for the airport.•There are no wildlife or bird migration routes nor is there any species of concern in this area.

Description de l'environnement existant : Environnement socio-économique

•The site is located 2.6 kilometres west of the community of Baker Lake and 2.2 kilometres west of the Inuujaarvik Territorial Park located within lot 444 plan 4664.•There are no archaeological or culturally significant sites within or around the quarry.•There is no subsistence harvesting, tourism, trapping or guiding operations in the quarry.•As mentioned previously, there is an existing road that connects this quarry to the community. This road will be used to haul aggregate from the quarry,•Since the quarry site is located 2.6 kilometres from the community of Baker Lake, the effect of the extraction process on the well-being of the residence will be minimal.

Miscellaneous Project Information

•There is no abandonment and decommissioning plan, emergency response plan, comprehensive spill/prevention plan, or monitoring and management plans.•The site is not located within the Caribou protection areas or schedule 1 Species at Risk known locations.

Identification des répercussions et mesures d'atténuation proposées

NIL

Répercussions cumulatives

•The quarry site will limit future expansion of community subdivisions into this area, but this is a minimal effect in the short term because the community of Baker Lake is expanding North and this site is located west of the community.

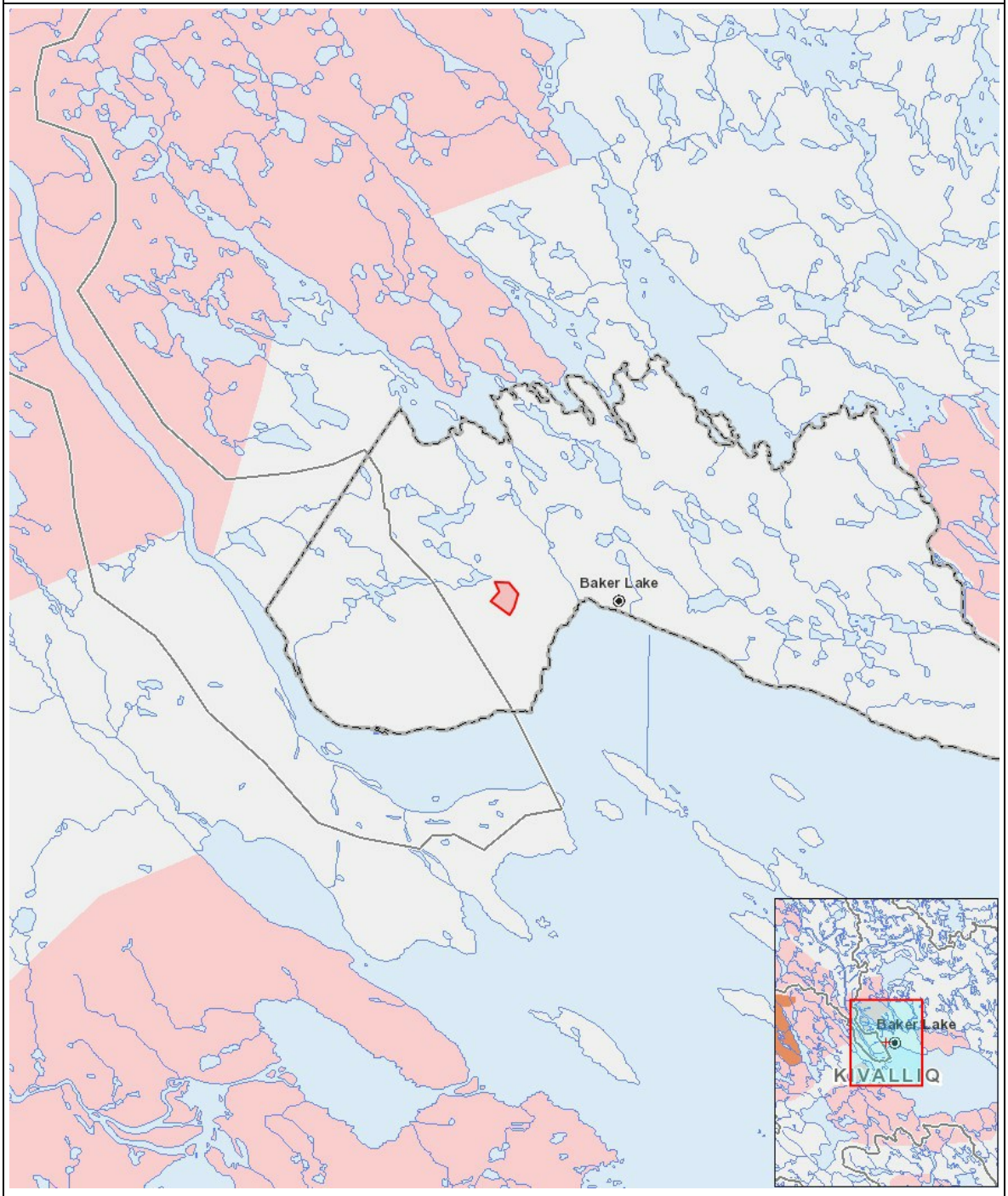
Impacts

Identification des répercussions environnementales

	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																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Exploitation																									
Quarry/Borrow pit		-	U	U	-	-	-	-	U	U	-	-	N		N	-	-	-	-		-	P	P	P	-
Désaffectation																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)

Site du projet



Liste des géométries de projet

1	polygon	quarry boundary