

Demande de la CNER faisant l'objet d'un examen préalable #125496
Ferguson Lake Project

DÉTAILS

Description non technique de la proposition de projet

Anglais: FERGUSON LAKE PROJECT AND PROPERTY DESCRIPTION The Ferguson Lake Project is an advanced Ni-Cu-Co-PGE exploration property 100% held by private Ontario incorporated company Canadian North Resources and Development Corp. (CNRD). Between the years 1949-57 the property area was explored by INCO then it was acquired by Starfield Resources Inc. in 1999 whereupon a number of different exploration methods were used to study and advance the project including airborne and surface geophysical surveys, surface geochemistry programs and diamond drilling. CNRD acquired the project from Starfield under bankruptcy protection in June, 2013. The Ferguson Lake property consists of 29 active mineral claims and 10 mining leases comprising an area of 28,128 hectares (69,476 acres) 100% held by Canadian North Resources and Development Corporation (CNRD). The property is located in the Kivalliq region of southern Nunavut Territory some 240 kilometres west of Rankin Inlet and 160 kilometres south-southwest of Baker Lake. Ferguson Lake, central to the large property area, is midway between Yathkyed and Qamanirjuaq Lakes. The property encompasses an area consisting of three contiguous claim blocks plus one block of contiguous mining leases extending across and south of Ferguson Lake between latitudes 62°30' and 62°55' North and longitudes 96°10' and 97°30' West in NTS map-areas 65I/10-16 (UTM coordinates 6945000–6978000N, 585000–625000E – Zone 14). The mining leases consist of 11,456 hectares (23,935 acres) and cover the Ni-Cu-Co-PGE Ferguson Lake Deposit which extends east-west for 12 km from seven km west to 2 km east of Ferguson Lake. The mining leases are located predominately on Kivalliq Inuit Association (KIA) surface rights owned land (RI-24, RI-25, RI-26 and RI-27). The following Commercial, Land Use and Right of Way permits, enabling work, water use, and travel to be conducted over the mining leases, claims, and Prospecting Permit areas, are issued by the Kivalliq Inuit Association (KIA), Indigenous and Northern Affairs Canada (INAC), and Nunavut Water Board (NWB): •KVCL305H27 Expires July 22, 2022 •KVCA08Q17 Expires September 11, 2020 •KVRW06F09 Expires October 17, 2019 (request for extension submitted) •2BE-FER1318 TYPE “B” Expires December 11, 2023 •N2013X0023 Expires March 16, 2021

Français: LA DESCRIPTION DE PROJET ET PROPRIÉTÉ DU LAC FERGUSON Le projet du lac Ferguson est une propriété d'exploration avancée de Ni-Cu-Co-PGE détenue à 100 % par une société privée de l'Ontario constituée en société, Canadian North Resources and Development Corp.(CNRD).Entre 1949 et 1957, INCO a exploré la zone de propriété, puis elle a été acquise par Starfield Resources Inc. en 1999, après quoi plusieurs méthodes d'exploration ont été utilisées pour étudier et faire progresser le projet, y compris les levés géophysiques en surface et en vol, les programmes de géochimie de surface et le forage au diamant. La CNRD a acquis le projet de Starfield sous la protection de la faillite en juin 2013. La propriété du lac Ferguson comprend 29 claims miniers actifs et 10 baux miniers comprenant une superficie de 28 128 hectares (69 476 acres) 100 % détenus par la Société canadienne des ressources du Nord et du développement (CNRD). La propriété est située dans la région de Kivalliq, dans le sud du Nunavut, à environ 240 kilomètres à l'ouest de Rankin Inlet et à 160 kilomètres au sud-ouest du lac Baker. Le lac Ferguson, au cœur de la grande propriété, se trouve à mi-chemin entre les lacs Yathkyed et Qamanirjuaq. Le bien comprend une zone composée de trois blocs contigus de claims plus un bloc de baux d'extraction contigus s'étendant à travers et au sud du lac Ferguson entre les latitudes 62°30' et 62°5' au nord et les longitudes 96°10' et 97°30' à l'ouest dans les zones cartographiques NTS 65I/10-16 (coordonnées UTM 6) 945000-6978000N, 585000-625000E - Zone 14). Les baux miniers comprennent 11 456 hectares (23 935 acres) et couvrent le dépôt du lac Ferguson Ni-Cu-Co-PGE qui s'étend de l'est à l'ouest sur 12 km, de sept km à l'ouest à 2 km à l'est du lac Ferguson. Les baux miniers sont principalement situés sur des terres appartenant à la Kivalliq Inuit Association (KIA) (RI-24, RI-25, RI-26 et RI-27). Les permis commerciaux, d'utilisation des terres et d'emprise suivants, qui permettent d'effectuer des travaux, de l'utilisation de l'eau et des voyages dans les zones de bail, de revendication et de permis de prospection miniers, sont délivrés par la Kivalliq Inuit Association (KIA), Affaires Autochtones et du Nord Canada (AAND), et la Nunavut Water Board (NWB): • KVCL305H27 Expire le 22 juillet 2022 • KVCA08Q17 Expire le 11 septembre 2020 • KVRW06F09 Expire le 17 octobre 2019 (demande de prolongation soumise) • 2BE-FER13 18 LE TYPE B Expire le 11 décembre 2023 • N2013X0023 Expire le 16 mars, 2021

[illegible]

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
PEL Haul Route	Other	Inuit Owned Surface Lands	The Ferguson Lake Deposit was originally discovered in 1950 by Inco Limited and has been intermittently explored by a variety of operators including Starfield Resources until 2013 when it went into bankruptcy. The project was taken over by Canadian North Resources and Development Corp. the same year. The project and camp has since been under care and maintenance and predominantly closed.	Unknown	The Ferguson Lake Property is in the Kivalliq region of southern Nunavut Territory some 250 kilometres west of Rankin Inlet and 170 kilometres south-southwest of Baker Lake. The area lies within designated caribou calving grounds which is closed to exploration between May 1 and July 31.

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Rankin Inlet	none, not applicable	none, not applicable	2019-12-20
Baker Lake	none, not applicable	none, not applicable	2019-12-20

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
Kivalliq Inuit Association	KVCL305H27 Extension of Commercial Licence for Ferguson Lake Camp	Active	2017-07-22	2022-07-22
Kivalliq Inuit Association	KVCA08Q17 Extension of Quarry Permit for Ferguson Lake airfield	Active	2019-09-11	2020-09-11
Kivalliq Inuit Association	KVRW06F09 Extension of Right of Way permit for Ferguson Lake Project , expected dates shown below.	Applied, Decision Pending	2019-10-17	2021-10-17
Office des eaux du Nunavut	2BE-FER1318 TYPE "B" Extension of Class B Water Use License for Ferguson Lake Camp	Active	2018-12-11	2023-12-11
Indigenous and Northern Affairs Canada	N2013X0023 Extension of Right of Way permit for overland winter travel between Rankin Inlet and Ferguson Lake camp	Active	2019-03-16	2021-03-16
Kivalliq Inuit Association	KVRW98F146 Right of Way permit for overland winter hauling between Baker Lake and Ferguson Lake camp issued to Peter's Expediting Limited	Active	2019-04-01	2021-04-01

Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Air	none	
Water	none	
Land	Based upon the amount of snow cover and weather conditions four proposed overland round trips to the Ferguson Lake camp are to be completed out of Baker Lake by Peters Expediting Limited during the winter season. The first trip would scout and ice profile a new less rocky route from last winter from Baker Lake to the camp using the Bombardier snow track vehicle. The second trip would use the full-size Quad Trak and Challenger to bring in empty sea-cans, pack a good trail to the camp and crusher site, and then retrieve and tow the crusher using both the machines over to the Ferguson	

camp. For the third and fourth trips, the full-size Delta heavy vehicle would carry in the 120 barrels of fuel to the camp with the Quad Trak along for support. The sea-cans brought to the camp would be filled with the stored waste material at the Ferguson Lake camp and towed back to Baker Lake on return trips. The waste would then be shipped south.	
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Project accomodation types

Autre,

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
one Cat BL320 Excavator, one Bobcat 287 Skid Steer, one Bombardier Snowcat, one Cat 950F Wheel Loader, one Cat 140G Motor Grader, two D250 haul trucks, one D4 Caterpillar Dozer, two Chev 2500 crew cabs, three diesel generators, 15 snowmobiles/ATVs	28	0.5m by 2m up to 3m by 5m in size	Equipment is stored and inactive. No equipment use is planned. The camp is presently closed.
Challenger 75D	2	2 by 15m	Tow crusher and containers from Baker Lake and crusher site to Ferguson Lake camp.
Foremost Delta	1	3 by 16m	Carry fuel and tow containers with waste between Baker Lake and Ferguson Lake camp
Case Quadtrac	1	3 by 12m	Tow containers and other equipment as needed
Various snow vehicles and sleds	4	1 by 2m	Carry personnel and provide support for main vehicles

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
Diesel	fuel	1	5000	5000	Liters	Fuel to be used for powering heavy equipment for the overland travel.

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
1	No proposed water use at Ferguson Lake Camp since it will be closed. Water will be carried by personnel for their own use.	Baker Lake municipal water supply

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Dredging	Déchets combustibles	0 (camp closed)	Burned in the incinerator at camp,	Unburnable materials flown out of camp to be disposed at legal dump site at Rankin Inlet
Camp	Déchets combustibles	1 bag	Any waste generated will be carried back to Baker Lake.	No waste to be generated by Ferguson Lake camp since it will be closed during this operation.
Dredging	Eaux grises	0 (camp closed)	grey water disposed in sump and human waste in PAC toilets which is burned	none
Camp	Déchet dangereux	30 tonnes	Camp waste and empty barrels to be placed into containers brought into camp and will be towed out to Baker Lake using the Challenger 75D and Case Quadtrac snow vehicles operated by Peter's Expediting.	Waste brought out to Baker Lake will be shipped south the following summer to be treated and disposed safely.
Dredging	Eaux usées (matières de vidange)	0 (camp closed)	human waste in PAC toilets which is burned	none

Répercussions environnementales :

Risk of hydrocarbon spill from fuels to the route surface and bodies of water along the way both from the hauling vehicles being utilized and the barrels being transported into the Ferguson Lake Camp from Baker Lake. Risk lessens once fuels are stored in lined permitted berm at the camp. Mitigation of impact based upon measures outlined in Ferguson Lake Project Spill Contingency Plan, 2015. No predicted significant mechanical environmental impacts from overland winter transportation between Baker Lake and Ferguson Lake camp and the crusher site because snow track vehicles will be used for the undertaking only if the snow layer is deep enough to not result in any significant damage to the tundra environment.

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

Winter overland routes to Baker Lake and Rankin Inlet shown in uploaded map.

SECTION B1: Project Info

The Ferguson Lake Property consists of 9 mining leases in one block of contiguous mining leases that extends across and south of Ferguson Lake between latitudes 62° 30' and 62°55' North and longitudes 96°10' and 97°30' West in NTS map- areas 65I/10-16 (UTM coordinates 6,945,000 – 6,978,000N, 585,000 –625,00E – Zone 14).

SECTION B2: Exploration Activity

none at present

SECTION B3: Geosciences

none at present

SECTION B4: Drilling

none at present

SECTION B5: Stripping

none at present

SECTION B6: Underground Activity

none

SECTION B7: Waste Rock

none

SECTION B8: Stockpiles

none

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 de l'environnement existant : Environnement physique

The Ferguson Lake area is in the tundra. It is an area of low relief, featuring numerous smaller lakes and a few large river systems, notably Kazan and Ferguson Rivers. Yathkyed and Ferguson Lakes are 141 and 114 metres above sea level respectively, and maximum elevations in the general area range from 200 to 275 metres. Elevations within the current property area average less than 200 metres and range from slightly less than 100 metres at the property's eastern boundary to 290 metres north of Yathkyed Lake. The orientation of Ferguson and a number of smaller lakes reflects the dominant south-easterly glacial direction. Bedrock is fairly well exposed on numerous low hills and ridges; in lower areas bedrock may be obscured by between 6 and 25 metres of glacial debris, mainly till.

Description de l'environnement existant : Environnement biologique

The terrain is typical of the tundra barren grounds; tree line is 150 km south of Ferguson Lake and vegetation consists principally of moss, lichen, dwarf birch and Labrador tea. Wildlife includes caribou, Arctic foxes, muskoxen, arctic hare, sik sik, wolves, wolverines, barren ground grizzly bears and various species of birds.

Description de l'environnement existant : Environnement socio-économique

There are no inhabitants in the area. Ferguson Lake is occasionally visited for hunting and fishing purposes by Nunavut citizens.

Miscellaneous Project Information

Identification des répercussions et mesures d'atténuation proposées

No impacts because the camp remains closed and exploration and development is on hold.

Répercussions cumulatives

The development of a mine at Ferguson Lake would result in major cumulative impacts in the area.

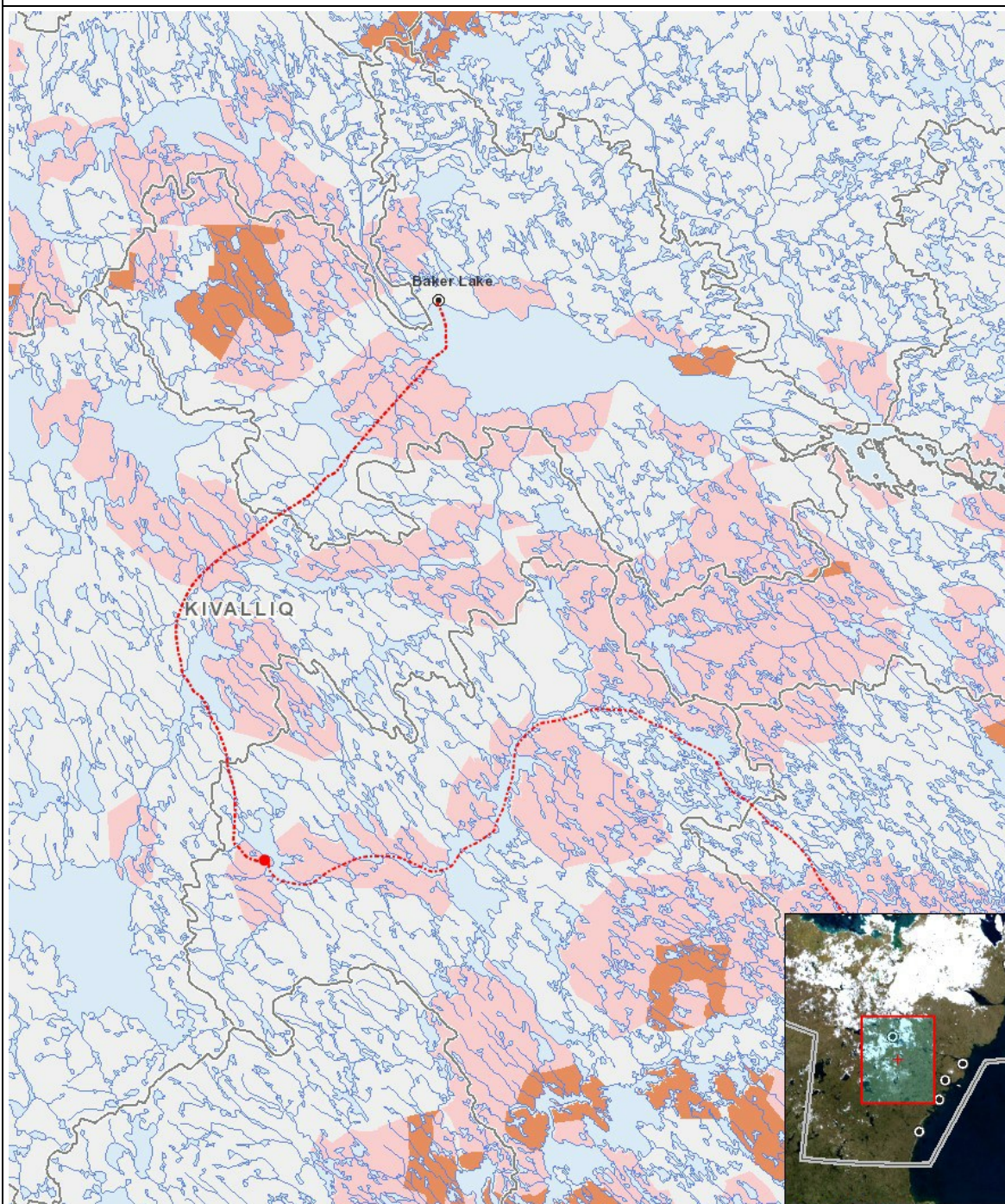
Impacts

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																										
Other		-	N	N	-	N	-	N	-	-	-	N	N		-	-	-	-	-		-	-	-	-	-	-
Désaffectation																										
-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

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

Site du projet



Liste des géométries de projet

- | | | |
|---|----------|---|
| 1 | polyline | PEL Haul Route |
| 2 | polyline | Baker Lake to Ferguson Lake Overland Haul Route - Nov. 2019 |
| 3 | polyline | Ferguson Lake to Crusher Site |
| 4 | point | Ferguson Lake Camp |