



## **NIRB Application for Screening #126178**

### **Izok Corridor Project**

**Application Type:** New

**Project Type:** Mineral Exploration

**Application Date:** Friday, May 9, 2025

**Period of operation:** from 2025-04-10 to 2028-12-05

**Project Proponent:** Catherine Knight  
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Canada  
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# DETAILS

## Non-technical project proposal description

English: MMG Resources Inc. (MMG) is planning to do mineral exploration as part of the Izok Corridor Project (the Project). The purpose of this application is to:-Expand the area of two Nunavut Water Board (NWB) Water Licences (2BE-IZO2328 and 2BE-HIG2328)-Expand the area of two CIRNAC Land Use Permits (LUPs; N2024C0021 and N2024C0022)-Start mineral exploration in CIRNAC mineral claim areas that are outside of the existing NWBs and LUPs areas The Izok Corridor has been explored by various mining groups since the 1950's and is currently held by MMG, who obtained the project in 2009. MMG is resuming mineral exploration activities in the High Lake area and the Izok Lake area. Exploration activities in these areas have been previously reviewed for environmental impacts by the Nunavut Planning Commission (NPC) and the Nunavut Impact Review Board (NIRB). MMG acquired 68 new CIRNAC mineral claims in the Izok Corridor Project Area in 2023 & 2024. MMG's exploration program for these CIRNAC mineral claims was accepted for review by the NPC on March 28, 2025, and subsequently referred to NIRB for screening on April 16, 2025. On approval from NIRB, MMG will apply for amendments to the CIRNAC LUPs and Nunavut Water Board Water Licences, and the Kitikmeot Inuit Association (KIA) for right of access agreements where mineral claims and leases are located on KIA lands. See attached map. MMG plans to conduct exploration including electro-magnetic surveys and drilling programs starting in spring 2025. Exploration activities may occur during summer, fall and/or winter seasons. Other activities related to exploration may include air or ground-based surveys, mapping, sampling, staking, environmental monitoring, and archaeological studies. On commencement of the exploration program the MMG team will use the Bluestar Gold's Ulu Camp until the Izok Lake Camp (at Ham Lake) and High Lake Camp is prepared for occupancy. The Izok Lake camp is located approximately 300 km southwest of High Lake and has been in care & maintenance status since 2015. During field exploration programs, the number of people at camp will change depending on the activities, with a maximum occupancy of 30 people. Izok Lake camp can be accessed by plane, using the gravel air strip near camp. The High Lake camp is located approximately 50 km south of Grays Bay and has been in care & maintenance status since 2015. The High Lake camp can be accessed by a float plane on High Lake. A helicopter is normally on site when camp is occupied. During field exploration programs, the number of people at camp will change depending on the activities, with a maximum occupancy of 30 people. Where possible, MMG will use local workers, materials and services from Kitikmeot communities and offer on-the-job training. Small temporary camps may also be used periodically to support limited remote seasonal exploration activities. Any small temporary camps will be located on dry durable ground, where exploration drilling may happen. These camps will be temporary tent camps, will be set up after archaeological surveys have been done, and any archaeological sites protected. Water will be used within the limits listed in MMG's Water Licences to support exploration activities and camp operations. Transportation between camp sites and exploration locations is mostly by helicopter, with some use of snowmobiles in winter. ATVs are used in the summer/fall in the camps to move equipment and supplies between aircraft and the various camp buildings. Fuel at all sites will be stored with secondary containment. Fuel will include diesel, aviation fuel, gasoline and propane. Drilling water and camp kitchen grey water will be managed per the approved water licence. Either pacto, incinerating, or outhouse-type pit toilets will be used. An incinerator may be used to burn waste like wood, cardboard, and paper. All other wastes will be transported to Yellowknife for disposal.

French: MMG Resources Inc. (MMG) prévoit d'effectuer des travaux d'exploration minérale dans le cadre du projet du corridor Izok (le projet). Les objectifs sont les suivants :-Élargir la zone couverte par deux permis d'utilisation de l'eau délivrés par l'Office des eaux du Nunavut (OEN) (2BE-IZO2328 et 2BE-HIG2328)-Étendre la superficie de deux permis d'utilisation du sol (PUS) délivrés par Relations Couronne-Autochtones et des Affaires du Nord Canada (RCAANC) (N2024C0021 et N2024C0022).-Commencer l'exploration minérale dans les zones de concession minière de RCAANC qui se trouvent à l'extérieur des zones existantes couvertes par l'OEN et les PUS. Le corridor Izok a été exploré par divers groupes miniers depuis les années 1950 et est actuellement détenu par MMG, qui a obtenu le projet en 2009. MMG reprend ses activités d'exploration minière dans les régions de High Lake et d'Izok Lake. Les activités d'exploration dans ces zones ont déjà fait l'objet d'une évaluation des impacts environnementaux par la Commission d'aménagement du Nunavut (CAN) et la Commission du Nunavut chargée de l'examen des répercussions (CNER). MMG a acquis 68 nouvelles





iglukpakakveop. High Lake-mi iklukpakakvik inikaktok kanitoani 50-kilamitamik hivogani Kapihiliktup Kagikhoani monagiyaohimalikhonilo hanakiyaovlonilo 2015-mit. High Lake-mi iglukpakakvik tikitaolaktok kayakaktokut tikmeakut High Lake-mi. Halikaptak iglukpakakvikmeginaktugaloak iglukpakakvik inokaligagat. Manikami kinikheatilogit havani, amigaenigit inoet iglukpakakvikmi piyotikaktok hulyotinit, amigaenikhanik inokalaktok 30-nik inuknik. Ayoknaetagagat, MMG-kot atokneaktut nonamit havaktukhanik, hanayakhanik ikayutiniklo Kitikmeoni nonagiyaoonit havitilotiklo havaklotik ayoekhayotikhanik. Mikiyut iglukpakakvilakhat atoktaoneaktut kagugogagat ikayoktogeagani ahikpani ukeop ilagani kinikheaveoyoni holiyotini. Kitolika mikiyut iglukpakakvilakhat inikakneaktut paneomayoni atagiktoni nonani, kinikheayotini ikutakveoneaktuni. Ukoa iglukpakakvet atoktaolakneaktut tupet, napaktiktaoneaktut igilgaknitanik naonaeyaetakata ukunani, igilgaknitakaktolo inigiyaoyut monagiyaoneaktut. Imak atoktaoneaktok iloani titigakhimanigini MMG-kot Imaknik Atogeagani Laeseoyoni ikayutikhanik kinikheayotini holiyotini topikakvikmilo havaohikni. Aolagotikhat akungani iglukpakakvet inigiyaenit kinikheaveoyolo inigiyaoyut halikaptakut, ilaganilo atoklotik siketonik ukeomi. ATV-n atoktaovaktut aoyami ukeakhamilo tupikpakakvikni akyaoaoyagani pikotini ihoakotini akungani tikmeat alatkelo tupikpakakveoyumi iglunit. Okhokhat tamaeni inigiyaoyoni tutkokaoneaktut hilatagut pukaktoni. Okhovaloeet ukoa okhokyoat, tikmeat okhokhaet, kasilet puvlaktut. Ikotaktonit imak tupikpakakvikmilo kokeovikmit atagut monagiyaoneaktut atoklogit agiktaohimayot imakmik atogeagani laeseoyomi. Pukaktut, ikolatilaktut, atikhihimayolunet anageaktokvet atoktaoneaktut. Ikolatiyut atoktaoneagonakhiyok ikolatiyagani kiyoknik, kigatayonik makpiganik, makpiganiklo. Tamaeta alat ikagut akyaktaoneaktut Yalonaemut igitaoyagani. Havaaqhangit Naunaitkutikhangit MMG Resources Inc. (MMG) upalungaiyaiqut uyaraqhiurnikkut qiniqhianirmik ilanganik uumani Izok Pihukviani Havaakhaq (tamna Havaakhaq). Pijutauniga uuma tuukhiqtut imaa: -Angiklivaaliriagani nuna malruuknik Nunavumi Immaqmik Katimayit (NWB) Immaqmik Laisiuyunik (2BE-IZO2328-mi 2BE-HIG2328) - Agiklivaaliriagani inigiyaoyut malruuknik CIRNAC-nik Nunanik Atuqniqagut Laisiuyunik (LUPs-nik; N2024C0021 uvalu N2024C0022) -Tamani uyagakhiuqtut qiniqhianiyut uvani CIRNACkut uyarakhiuqtut nayugaini hilataaniit NWBs ukualu LUPs nayugait Tamna Izok Corridor qiniqtauvakhimayut alaatqiniq uyaraqhiuqtunik katimayit talvanganin 1950nguyut hadjalu aulaliqtun MMGmin, taima pivakhimayut havaaqhangit 2009mi. MMGkut aulaffaaliqtut uyagaghiuqnikkut qiniqhiablutik hulidjutinik uvani High Tahiani nayugaani uvalu Izok Tahiani. Uyararhiurnikkut hulidjutikhat hapkunani ihivriqtauhimayunik avatiliqinikkut hulaqtinik Nunavut Upalungaiyaiyiyut Katimayit (NPC) ukuallu Nunavunmi Avatilirinirmut Katimayit (NIRB). MMG-kut pihimayut 68-nik nutaanik CIRNAC-nik uyaraktarviknik uuktuqtunik Izok-mi Pihukvikmi Havaaqhami 2023-mi 2024-mi. MMG-kut qiniqhianikkut pinahuaruti hapkununga CIRNAC-kut ujaraghiuqtauvaktuni pijauvaktun ihivriqhijaami NPC-kunnin March 28, 2025mi, talvannгалu tajauhimajuq NIRB-kunnun ihivriurhinikkut uvani April 16, 2025mi. Angiqtaugumik NIRB-kunnit, MMG-kut uukturniaqtut aadlangurninnganik uumunnga CIRNAC LUP-ngit unalu Nunavut Imanganik Katimayingit Imaq Laisinik, unalu Kitikmeot Inuit Katimayingit (KIA) pilaarutinganik piinariaqihimaniq angirutingit talvani uyaraktaakhat piimayanginnik atuqtitauyunullu ittut KIA-kut nunanginni. Takulugu ilaliutihimayut nunauyaq. MMGkut upalungaiyaiyut havaklugit qiniqhianirmun ilaayut electro-magneticnik naunaiyautit uvalu ikuutarnikkut pinahuarutit aularutiyut upingaami 2025. Qinirhiani qinilukaarutit piniaqtuq auyami, ukiakhami unalu/unaluuniit ukiumi. Aalat hulidjutit ilaayut qiniqhianirmun ilaayut tingmidjutikkut uvaluuniin nunami-pihimayut naunaiyautit, nunauyat, uuktuutit, avatiliqinikkut munagidjutit, uvalu ingilgaaqnitat naunaiyautit. Aullaqtirningani qinirhianikkut pinahuarutimi MMG-kunni havaktiit aturniaqtait una Bluestar Gold's Ulu Tangmaarvighaq talvunga Izok Tahiani Tahiani Tahiani (uvani Ham Lake) unalu Angajukhiinni Tahiqmi Tahiqmi upalungaijaqtakpat inuqarnirnun. Tamna Izok Tahiq tangmaarvikhangit nayugaqaqtuq taima 300nik km hivuraani uataani Qulvani Tahiani munagidjutikharnik kihititirutikharnik talvanganin 2015min. Atuqtitlugu maniqami qiniqhianikkut pinahuarutit, qaffiuniit inuit maniqamiivingni aalangungniaqtut qanuginiitigut hulidjutit, kikliqaqlugit nayugait 30nik inungnik. Izok Tahiq tangmaarvikhangit pigiaqaqtun tingmitit, aturlugu uyarialaq ikianga kibluqhimayut haniani tangmaarvingmi. Tamna Taquyup Tahiani tangmaarvikhaq inilik mikhaani 50 km nigiani Grays Baymi munagiyaunialu havakhautit havakhikhimayunik talvanganit 2015. Quulitqiaq Tahiq tangmaarvikhangit pigiaqaqtun puptalaarutikharnik tingmitikharnik talvani High Tahiani. Halikaapta talvaniivaktuq tangmaarvingmi. Atuqtitlugu maniqami qiniqhianikkut pinahuarutit, qaffiuniit inuit maniqamiivingni aalangungniaqtut qanuginiitigut hulidjutit, kikliqaqlugit nayugait 30nik inungnik. Piyuminaqqan, MMG-kut aturniaqtait nunamingni havaktit, tamajat ikajuutikhallu Kitikmeonit nunallaanit imaalu iliaqtitilutik havakhutik ajuiqharutikhanik. Mikiyut tadjakaffuk

tangmaaqhimayut atuqtauhimaaqtaqtullu ikayugiangani kikliqaqtut unгахiktumi ukiumi qiniqhianirmun hulidjutit. Quyaginaq mikiyut atuqtauуut aulaaqtitaуut nayugaqaqtut paniupayumik nunami, humi qiniqhianikkut ikuutautit atuqtauniaqtut. Hapkuat haniqpaniilvikhat atullaktauniaqtun tupirnik haniqpaniilvikhat, iliuraqtauniaqtun ingilraarnitatangnik qaujiharutinik havaktaukpata, qujaginnanilu ingilraarnitaqarviit hapummijaukпata. Imaq atuqtauniaqtuq kikliitigut titiraqhimayut uvani MMGkut Imakkut Laisit ikayuutikhat qiniqhianirmun hulidjutit uvalu maniqami auladjutait. Ingilradjutikhat akkungangni tangmarviit imaalu qiniqhiaviit najugait halikaaptakkut, ilangit aturningit sikiituurnirmik ukiumi. Haatat atuqtauуut auyami/ukiaghаmi aulaaqtitiyuni nuutigiangani tamayat uvalu tamayat qitqani tingmitit uvalu aalakiit aulaaqviit igluqpait. Urhuqyuaq tamainni nayuganginni tutquqtauniaqtut tuglianut piqaqtuq. Uqhuqyuat ilaqaqniaqtut uqhuqyuanik, tingmihiqijutinik uqhuqyuanik, kasiliinik propane-miklu. Ikuutaqtut imait uvalu hiniktaqviit imait mungaqtitauniaqtut malikhugit angiqtauhimayut imakkut laisit. Naliik pacto, ikualativik, uvaluuniin quuyaqtuqviit anarviit atuqtauniaqtut. Ikualatiivik atuqtauуaaqtuq ikualatiyaami iqakunik imaa qiut, pianat, uvalu titirqat. Tamaita aalat iqakut agyaqtauniaqtut Yalunaimun igitaуyaangani.

### **Personnel**

Personnel on site: 35

Days on site: 180

Total Person days: 6300

Operations Phase: from 2025-04-10 to 2028-12-05

## Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Proposed Amended Izok Area CIRNAC LUP and NWB Water Licence extent	Mineral Exploration	Crown	N/A	TBD	N/A
Proposed Amended High Lake Area CIRNAC LUP and NWB Water Licence Extent	Mineral Exploration	Crown	N/A	TBD	N/A
Current Izok Area NWB Water Licence Extent	Mineral Exploration	Crown	Current extent of MMG NWB Water Licence	TBD	N/A
Current Izok Area CIRNAC LUP Extent	Mineral Exploration	Crown	Current extent of MMG CIRNAC LUP	TBD	N/A
Current High Lake Area NWB Water Licence Extent	Mineral Exploration	Crown	Current extent of MMG NWB Licence	TBD	N/A
Current High Lake Area CIRNAC LUP Extent	Mineral Exploration	Crown	Current extent of MMG CIRNAC LUP	TBD	N/A
MMG Mining Leases	Mineral Exploration	Crown	MMG mining leases	TBD	> 175 kms
MMG Mineral Claims	Mineral Exploration	Crown	MMG Mineral Claimes	TBD	> 140 kms

## Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Cambridge Bay	Wayne Gregory, Jim MacEachern, Peter Evalik, Jessie Lylall, Zach Crooks, Bessie Haomick Joy	Hamlet of Cambridge Bay; HTP	2025-03-10
Cambridge Bay	Fred Pedersen, Nicole Maksagak	Kitikmeot Inuit Association	2025-03-10
Cambridge Bay	Carson Gillis, Jorgan Aitoak, Chris Kullak	Nunavut Tunngavik Incorporated	2025-03-11
Kugluktuk	Amanda Dumond, Alan Niptanatiak, James Bolt, Darwin Ipakohak, Mila Kaminguak, Catherine Nipanatiak, Nigel	Kugluktuk HTO; CIRNAC	2025-03-12

	Ailukpik		
Kugluktuk	Ryan Nivingalok, Kevin Nipanatiak, John McCafferty	Hamlet of Kugluktuk	2025-03-13
Kugluktuk	Wynter Kuliktana, Tannis Bolt, Jennifer Amagoalik, Sky Lacroix, John Roesch	Kitikmeot Inuit Association	2025-03-14
Iqaluit	Andrew Keim, John McInnis, Michelle Blade, Lauren, Joyce, Richard Bingham, Courtney	CIRNAC	2025-03-06

# Authorizations

Indicate the areas in which the project is located:

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Water Board	MMG holds a Type B Water Licence (2BE-HIG2328) associated with the Project. MMG is seeking to amend the extent of the Water Licence to conduct mineral exploration on newly acquired CIRNAC mineral claims.	Active	2023-02-13	2028-02-13
Nunavut Water Board	MMG holds a Type B Water Licence (2BE-IZO2328) associated with the Project. MMG is seeking to amend the extent of the Water Licence to conduct mineral exploration on newly acquired CIRNAC mineral claims.	Active	2023-05-26	2028-05-26
Kitikmeot Inuit Association	MMG will apply for an IOL Land Use Permit from the KIA	Not Yet Applied		
Indigenous and Northern Affairs Canada	MMG holds two CIRNAC Land Use Permits (LUP) associated with the Project. MMG is seeking to amend the extent of the LUPs to conduct mineral exploration on newly acquired CIRNAC mineral claims. N2024C0021 (expiry July 25, 2029)N2025C0022 (expiry July 25, 2029)	Active		
Government of Nunavut, Department of Culture, Language, Elders, and Youth	MMG will apply for a Type 1 archaeological permit to support mineral exploration activities.	Not Yet Applied		

**Project transportation types**

<b>Transportation Type</b>	<b>Proposed Use</b>	<b>Length of Use</b>
Air	Transport to camp, transport between sites	
Land	ATV or snowmobile around camps	

**Project accomodation types**

Temporary Camp

Permanent Camp

# Material Use

## Equipment to be used (including drills, pumps, aircraft, vehicles, etc)

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Helicopter / fixed wing aircraft	TBD	2000 lbs	Transportation of crew and equipment/supplies; airborne geophysics. Quantity and dimensions dependent on activities. AS350-B/206LR/500D.
CAT Dozer	2	D6 – 6000 lbs; 8'x14'	Construction of air strip on frozen lake
Drilling rigs	TBD	TBD	Drilling – geotechnical, core or diamond drills; for exploration;
Incinerator	2	Forced air diesel fired furnace	Disposal of combustible wastes
Toilets	TBD	Various	Incinerating, packo, or pit-type toilets
Generators	TBD	60-175 Kw; 2'x4'	Power supply for drilling, camps
Water pumps	TBD	Various	Water supply for camps and drilling
Snowmobiles/ATVs	TBD	Various	Transportation of crew and equipment/supplies

## Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Aviation fuel	fuel	1600	205	328000	Liters	Fuel for helicopters, fixed wing aircraft
Gasoline	fuel	24	205	4920	Liters	Fuel for atvs, etc
Diesel	fuel	1600	205	328000	Liters	Fuel for generators, etc
Propane	fuel	24	125	3000	Lbs	Fuel for stoves, etc
Lubricants and greases	hazardous	1	1	1	Liters	Equipment maintenance; quantities to be determined
Acetylene	hazardous	1	1	1	Liters	Equipment repair (welding); quantities to be determined
Batteries and Solvents	hazardous	1	1	1	Liters	Various equipment and small appliances, solvents for cleaning; quantities to be determined

Oxygen	hazardous	1	1	1	Liters	Welding repair; quantities to be determined
Drill muds, lubricants, additives	hazardous	1	1	1	Liters	Drilling additives; quantities to be determined

### Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
100	Submersible electric pumps with screened intakes will be used in camp; a diesel or gas-powered pump is normally used for water for drilling. Intakes will be screened.	Water for drilling purposes will be drawn from local sources near drilling targets.

# Waste

## Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Mineral Exploration	Combustible wastes	TBD	Incineration - wastes will be collected at the end of the day and returned to camp for management. Will be sorted at camp and managed with camp wastes.	None
Mineral Exploration	Other, Drill water and cuttings	TBD	Drill cuttings will be collected and deposited in sumps. Recirculated water will be allowed to settle and will be filtered and inspected before being released to the environment.	None

### Environmental Impacts:

Potential environmental impacts and proposed mitigation measures are included in the attached Project description. Spill Contingency Plans for High Lake and Izok have also been attached. A Wildlife Management Plan was developed for previous related Projects. This plan, attached, is still valid and will be followed during Project activities. MMG understands the importance of caribou in the region. The attached Wildlife Management Plan outlines mitigation methods to prevent or reduce impacts to caribou and other wildlife during Project activities. In the High Lake area of the Project, the Dolphin and Union caribou herds are present, and in the Izok area, the Bathurst caribou herd is present.

# **Additional Information**

## **SECTION A1: Project Info**

## **SECTION A2: Allweather Road**

## **SECTION A3: Winter Road**

## **SECTION B1: Project Info**

The primary interest in the Izok Project area is copper and zinc.

## **SECTION B2: Exploration Activity**

Exploration drilling (surface drilling) and geophysical work (ground EM and IP surveys) will be completed.

## **SECTION B3: Geosciences**

Electromagnetic surveys (ground) and induced polarization surveys (ground) will be completed.

## **SECTION B4: Drilling**

Approximately 28 drill holes, with average depth of 250 m will be drilled in 2025. Subsequent exploration programs will be based on results of previous year. Drilling returns will be allowed to settle before being returned to the bit face. At the completion of drilling, water contained in the settling tanks is filtered and inspected before being returned to the environment. Cuttings are collected and deposited in sumps

## **SECTION B5: Stripping**

No stripping will be conducted.

## **SECTION B6: Underground Activity**

No underground work will occur.

## **SECTION B7: Waste Rock**

No waste rock will be generated.

## **SECTION B8: Stockpiles**

No stockpiles will be generated.

## **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 of Existing Environment: Physical Environment**

The Izok corridor Project is located within the Takijua Lake Upland Ecoregion. This ecoregion takes in the eastern half of the Bear-Slave Upland south of Coronation Gulf. Much of the upland surface is composed of un-vegetated rock outcrops that are common on the Canadian Shield. The mean annual temperature is approximately -10.5o C with a summer mean of +6o C and a winter mean of -26.5o C. The mean annual precipitation range is 200-300 mm. Bedrock in the region consists mainly of massive Archean rocks that form broad, sloping uplands, plateaus, and lowlands. The Bathurst Hills form a prong of rugged ridges that reach about 610 m above sea level and stand as much as 185 m above nearby lakes. Turbic and Static Cryosols soil types have formed on thin discontinuous sandy morainal and fluvio-glacial materials, and in association with rock outcrops, dominate the uplands. Organic Cryosols are the dominant soils in the lowlands. Permafrost is deep and continuous with low ice content throughout the majority of the region, although the ice content along the west side of Bathurst Inlet is low to medium. The ecoregion has high mineral development potential and considerable exploration activity has taken place.

### **Description of Existing Environment: Biological Environment**

This ecoregion is classified as having a low arctic ecoclimate. Numerous lakes fill its lowlands. Vegetative cover is characterized by shrub tundra, consisting of dwarf birch, willow, northern Labrador tea, *Dryas* spp., and *Vaccinium* spp. Depressional sites are dominated by willow, sphagnum moss, and sedge tussocks. Scattered stands of spruce occur along the southern boundary of the ecoregion. Characteristic wildlife includes caribou, muskox, grizzly bear, hare, fox, wolf, raptors, and waterfowl. The region in question does

not fall along migration routes and therefore does not directly impact the wildlife that utilize these routes. Direct impacts on the environment would therefore be limited. Removal of water from proposed water bodies is one direct impact, although the volume of water required for drilling is insignificant when compared to the available water volume. Intermittent noise around the proposed drill sites, and from the helicopter and occasional aircraft is to be expected.

### **Description of Existing Environment: Socio-economic Environment**

MMG is consulting with the Government of Nunavut's Territorial Archaeologist regarding pre-impact assessments for archaeological, culturally significant and palaeontological resources and sites.

### **Miscellaneous Project Information**

A more detailed description of the Project is attached. Previous overlapping exploration activities associated with the Izok Corridor Exploration Project have been subject to NIRB screenings, including 12MN043, 12YA007, 07YN055, 07YN056, 06EN048, 08EN067, 06EN066, 04YN073, 03EN053, 01WN021, 02EN039, 06MN082.

### **Identification of Impacts and Proposed Mitigation Measures**

The project exploration work is intended to identify additional mineral resources in the region as well as continue to advance the feasibility of the Izok Lake/ High Lake deposits. Drilling operations are helicopter supported. The drill will be positioned on a temporary plank floor constructed over wooden timbers (8" x 8"). Drill pads maintain a 60 m distance to waterbodies. Secondary containment and spill kits are employed at fuel transfer points. Water used for diamond drilling is pumped from a source proximal to the pad location, using water screens approved as per DFO requirements. At the completion of drilling, water in the settling tanks is filtered and inspected before being returned to the environment. Cuttings from the tanks are collected and deposited downhole or in sump locations. These locations are normally natural depressions or open fractures in rock that allow for suitable natural containment. Where lake bottom targets are identified, drilling from the frozen lake surface is carried out in the winter months. Lake water is tested prior to and after completion of drill holes to ensure that there are no contaminants escaping the closed system. Cuttings are carefully collected and deposited on land in sumps, as described above. Sump locations are reported annually with the completion of drilling. Any disturbed ground is re-seeded. Operations will be modified or suspended if found to be affecting seasonal migration or nesting activities. Researchers will travel with a local Inuit Wildlife Monitor who will be responsible for spotting wildlife and taking action to avoid crew interactions with wildlife. Helicopter overflights will be at high altitudes except in areas of takeoff and landing. Helicopter flights will follow guidelines to minimize effects to wildlife. For more information on potential environmental impacts and proposed mitigations, please refer to the attached Project description.

### **Cumulative Effects**

The exploration program is localized and limited effects are such that there are no anticipated cumulative effects.

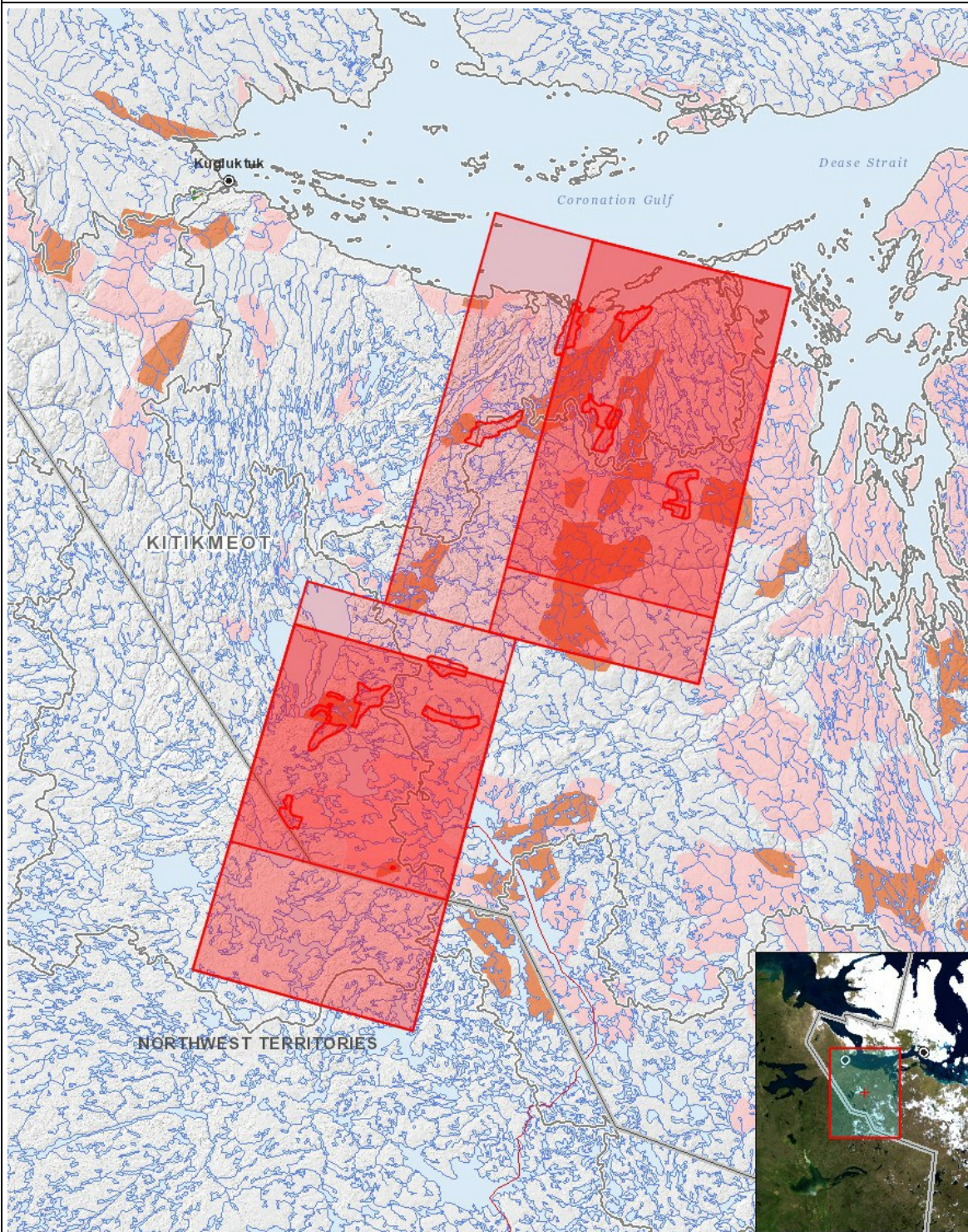
# Impacts

## Identification of Environmental Impacts

	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
<b>Construction</b>																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Operation</b>																									
Mineral Exploration	-	M	M	-	M	-	M	-	M	-	-	M	-	M	M	M	M	M	-	M	P	-	-	-	-
<b>Decommissioning</b>																									
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(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

## Project Location



## List of Project Geometries

- 1 polygon Proposed Amended Izok Area CIRNAC LUP and NWB Water Licence extent
- 2 polygon Proposed Amended High Lake Area CIRNAC LUP and NWB Water Licence Extent
- 3 polygon Current Izok Area NWB Water Licence Extent
- 4 polygon Current Izok Area CIRNAC LUP Extent
- 5 polygon Current High Lake Area NWB Water Licence Extent
- 6 polygon Current High Lake Area CIRNAC LUP Extent
- 7 polygon MMG Mining Leases
- 8 polygon MMG Mineral Claims