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Viridis Mining & Minerals is an exploration company based in Australia, with projects in both Canada and Australia. Its Canadian project is called the South Kitikmeot Gold Project, which is located in the Kitikmeot Region of Nunavut, near the Lupin Mine, Contwoyto Lake and the Back River Project. The Project includes seven properties spread over about 11,000 hectares. These properties were studied in the late 1980's, 1990's and again in 2021. Some drilling was done and there was a camp on Esker Lake. Most of the properties are on Crown land; one property is on Inuit Owned Land. Viridis is working with a local exploration contractor, Aurora Geosciences Ltd., to plan and conduct exploration on all of the properties. Starting in early spring 2023, Viridis would like to set up a main temporary tent camp and then do some drilling, mapping, and sampling, and also do some studies of the rocks from the air using a drone or a helicopter. The camp will be small at first, with up to 25 people. If the work is successful, the camp may expand over several years to house up to 50-60 people to do more work. Because some of the work sites are far apart, some crews may stay in a small tent for a few nights before travelling back to the main camp. Workers will usually travel to and from the camp on a small airplane, and to and from works areas in a helicopter. In the winter crews may travel around on the snow. If the winter road is built to the Lupin Mine, supplies may be brought in from the winter road to the main camp by cat train. The camp and activities on the land will happen at different times throughout the year, depending on weather and caribou use of the area. At the end of the program, all of the tents and equipment will be removed from the land. By using a program manager based in the north, Viridis looks forward to hiring local workers and contractors wherever possible.

DΔΔND: Not required as the project is located in the Kitikmeot region.

Δ^ΔΠ^Δ: Viridis Mining & Minerals-kut qiniqhianijut ujugakhiuqtit havagviujutnunaqaqtut hamani Australia, havaakhanik tamangni Kanatami hamanilu Australia. Kanatami havaakhat taijaujuq Hivuraani Kitikmeot Gold Havaakhaq, najugaqaqtuq Kitikmeoni Nunavunmi, haniani Lupin Ujarakhiurvingmi, Tahirjuag Tahia unalu Hanningajuq Kuugaq Havaakhaq. Tamna Havaakhaq ilaqaqtuq saivanik nanminirijaujut nunangit hiamitiqhimajunik taima 11,000 hectares. Hapkuat nanminirijaujut nunangit ihivriuqtauvakhimajut nunguliktitlugit ukiunginni 1980's, 1990's ukuallu 2021. Ilangit ikuutaqpakhimajut havaktaujut uvalu najugaqaqhimajut uvani Esker Tahiani. Amigainikhat piqutit Kavamatuqqani nunaanni; atauhiq nunagat uvani Inuit Nanminingat Nunaanni. Viridis havaqatigiliqtait nunamingni qiniqhianikkut katulaaktut, Aurora Geosciences Ltd., upalungaijariangini uvalu qiniqhialutik tamainni nanminiini nunangini. Aullaqtiirniaqtut upin'ngaami 2023, Viridis ihuaqhaijumajut tadjakaffuk tupirnik najugakhamingnik imaalu ikuutalirniaqtut, nainaijaqtakhamingnik, imaalu naunaijailutik, imaalu qaujihailutik ujaraarnik ikiarmit aturlutit tingmittaaktumik piksaliurunmik imaaluuniit hilikaaptamik. Tamna tangmaarvia mikiniaqtuq hivullirmi, taima inuqarniaqtuq 25-nik inungnik. Havaktaqtik ihuaqqan, tamna tangmaarvikhaktik angiklijumirniaqtuq amgaivjaktuni ukiunni iglukhainik imaatut amigaitilaaqaqtunik 50-60 inungnik havaakhimmaariangini. Taimaa ilangit havagvikhatik ungahingmata, ilangit havaktut hiniktarniaqtun mikijuni tupirni ikituni unnuani angilrautinnatik najurluaqtamingnut. Havaktit aullaqattarniaqtut tangmarvingmingnut talvangaluuniit tangmaarvingmit mikijukkut tingmitikkut, imaalu havagiakturlutik talvangaluuniit havagvingmingnit halikaptakkut. Ukiumi havaktiit aullaapangniaqtun nunakkut apuutiniqpan. Ukiumi apqut havaktaukpat talvunga Lupin Mine, tamajat agjaqtauvangniaqtun ukiumi apqutikkut akhalutikkut hamunga tangmaarvilluanganun akhaluutirjuakkut. Tangmaarvikhat hulilukaarutikhangitlu maniqqami aulaniaqtun allatqiinik tatqiqhiutini ukiungani tamaat, pidjutigilugu hilaqqiumagaikpat imaalu tuktut aturniannik najuqtamingni. Taimaaqtilirumik havagvigijamingnik, tamaita tupqiit tamajallu piijaqtauniaqtun nunamin. Atughuqu pinahuaruti atan'nqujaq nunaqaqtuq tahaman

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Post-Closure Phase: from to

					Yellowknife
Exploration area	Mineral Exploration	Inuit Owned Surface Lands	Previously explored intermittently since the 1980's	Unknown	Approx 200 km to each Kugluktuk and Yellowknife
Exploration area	Waste disposal	Crown	Previously explored intermittently since the 1980's	Unknown	Approx 200 km to each Kugluktuk and Yellowknife
Exploration area	Waste disposal	Inuit Owned Surface Lands	Previously explored intermittently since the 1980's	Unknown	Approx 200 km to each Kugluktuk and Yellowknife
Historic exploration camp area	Camp	Crown	Historical camp location supporting drilling in 1980s and 1990s	Unknown	Approx 200 km to each Kugluktuk and Yellowknife
Historic esker landing strip	Airstrip use or construction	Crown	Landing area on esker adjacent to historic exploration camp used for fixed wing access	Unknown	Approx 200 km to each Kugluktuk and Yellowknife

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ᑦᐅᑦᑕᑦᑕᑦᑕ	Wynter Kuliktana, Tannis Bolt	KIA Lands	2022-09-22
ᑦᐅᑦᑕᑦᑕᑦᑕ	Wynter Kuliktana, Tannis Bolt	KIA Lands	2022-11-01
ᑦᐅᑦᑕᑦᑕᑦᑕ	Baba Pedersen	CIRNAC	2022-10-26
ᐃᑦᑕᓗᐃᑦ	Tracey McCaie, Andrew Keim	CIRNAC	2022-10-26
ᑦᐅᑦᑕᑦᑕᑦᑕ	Baba Pedersen	CIRNAC	2022-10-31
ᐃᑦᑕᓗᐃᑦ	Tracey McCaie, Andrew Keim	CIRNAC	2022-10-31
ᑦᐅᑦᑕᑦᑕᑦᑕ	Baba Pedersen	CIRNAC	2022-11-08
ᐃᑦᑕᓗᐃᑦ	Tracey McCaie, Andrew Keim	CIRNAC	2022-11-08
ᑦᐅᑦᑕᑦᑕᑦᑕ	Kevin Methuen, Lisa LeClerc	GN-DOE	2022-11-10
ᑦᐅᑦᑕᑦᑕᑦᑕ	Kevin Methuen, Lisa LeClerc	GN-DOE	2022-11-10
ᐃᑦᑕᓗᑕᑦᑕᐱᑦᑕ	Hugh MacIassac	GN-EDT	2022-11-02
ᐃᑦᑕᓗᑕᑦᑕᐱᑦᑕ	Hugh MacIassac	GN-EDT	2022-11-03
ᐃᑦᑕᓗᐃᑦ	Paul Budkewitch	GN-EDT	2022-10-27
ᑦᐅᑦᑕᑦᑕᑦᑕ	Amanda Dumond	Kugluktuk Angoniatit	2022-09-22

		Association	
ᑭᑭᑭᑭᑭᑭ	Kimberley Young	Hamlet of Kugluktuk	2022-11-01
ᑭᑭᑭᑭᑭᑭ	Karen Kharatyan	Nunavut Water Board	2022-11-01
ᑭᑭᑭᑭᑭᑭ	John and Mercie Kaodloak	Landusers	2022-11-01
ᑭᑭᑭᑭᑭᑭ	Paul Budkewitsch	GN-EDT	2022-11-03
ᑭᑭᑭᑭᑭᑭ	Amanada Dumond	Kugluktuk Angoniatit	2022-11-01

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$a^{\dagger}r d^{ab} r^a \sigma^b \wedge c_n d n^e \Delta D \sigma d^{fb} D^c$ $\cap \cap \nabla^f \omega^c:$

Kitikmeot

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Project transportation types

Transportation Type	Transportation Mode	Length of Use
Air	Worker access and resupply by fixed wing, local work are access by heliport site and work areas. Planned use of lakes (summer and winter) and adjacent historical esker strip for aircraft landing. Nearby regional airstrips (Lupin) may be used if available.	
Land	Possibly resupply by overland cat train from Tibbitt To Contwoyto Winter Road (if it is built) to main camp area	

Project accomodation types

Temporary Camp

◀▷↳◀⁹⁶▷⁹⁶

Λ⁹δ^c Δ⁶ρ²ζ⁵ Δ⁵β⁶CDσ²Δ⁴γ²ζ⁵ Δ⁴ε⁵ρ²Δ³Π²Δ²ρ^c Δ²δ³Δ^c, Γ^cΔ²ρ²Π^c, ζ⁵β⁶LC²ζ⁵, ρ^cρ²Δ^c Δ²ρ⁵ρ^cΔ

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Fixed wing aircraft	tbd	tbd	Access, camp and drill support
Drills	tbd	tbd	Exploration drilling
Helicopters	tbd	tbd	Access, drill support, airborne geophysics
Generators	tbd	tbd	power for camp and drills
Drone	tbd	tbd	Airborne geophysics, mapping
Water pump	tbd	tbd	Pump water for domestic and industrial use
Snowmobiles	tbd	tbd	Access
Snowcat	tbd	tbd	Camp and drill support
Watercraft	tbd	tbd	Access
Compressors	tbd	tbd	Camp and drill support
ATV	tbd	tbd	Access, camp support
Skidsteer	tbd	tbd	Camp support
Temporary tent camp	1	up to 60 persons	Main camp with hard floors, soft walls
Sloop or equivalent	various	tbd	Exploration support
Kubota	1	small	Winter access support
UTV	various	tbd	Winter access support
Ground geophysics instrumentation	various	tbd	Exploration
Temporary tent camp (Arctic oven style)	multiple	up to 6 persons	Small temporary camp for remote crews

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additives						
Salt	hazardous	500	50	25000	Lbs	Drill support
Owygen	hazardous	6	100	600	Lbs	Welding for equipment repair, first aid
Acetylene	hazardous	4	100	400	Lbs	Welding for equipment repair
Aviation fuel	fuel	200	205	41000	Liters	Aircraft fuel
Diesel	fuel	225	205	46125	Liters	Camp and equipment fuel
Gasoline	fuel	25	205	5125	Liters	Equipment fuel
Cement	hazardous	500	50	25000	Lbs	Drill support

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Δ ^c CL ^{9b} 4D ^{9b} CDσ4 ^{9b} 9b	9b ^{9b} ΔΓ ^{9b} C ^{9b} C ^{9b} σ4 ^{9b} < ^c	ΔP ^c ΔΓ ^{9b} C ^{9b} C ^{9b} σ4 ^{9b} < ^c
299	Pump with screened intake	Various lakes proximal to camp locations(s) and drills

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			recycling and/or disposal	
Drilling	Other, Drill cuttings	Various	Discharge to upland sump or depression	Settling tanks and/or flocculants to support water reuse where possible
Mineral Exploration	Other, Cuttings and water from core saw	various	Discharge to upland sump or depression	Settling tanks and/or flocculants to support water reuse where possible
Camp	ᑭᑭᑭᑭᑭᑭᑭᑭ	approx 0.1 m3/day/person	collect in pacto style toilet. Either incinerate on site or backhaul for offsite disposal	Backhaul incinerator ash for offsite disposal

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See attached document

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

SECTION B1: Project Info

Gold

SECTION B2: Exploration Activity

The following exploration activity may occur over the life of the project: trenching; exploration drilling on land or over ice (diamond and/or rotary air-blast/reverse circulation); geophysical work (ground and air); soil sampling; core logging.

SECTION B3: Geosciences

Geophysical (ground and air) operations may include the following, or similar/related methodologies: magnetic; gravimetric; electromagnetic. Geological operations may include geological mapping. Activity locations, timing and flying are to be determined. Activities may occur throughout the study area.

SECTION B4: Drilling

Drill hole locations and depths are to be determined based on ongoing analysis of historic exploration activities, and results of new exploration activities. It is expected that drilling will be limited to the existing claim areas. Based on future prospecting results, claim boundaries may change in the future, however, it is reasonable to expect that drilling will occur in an area contiguous with that already delineated. Drill additives will be used where required, to the minimum extent possible. Additives vary depending on the nature of the ground encountered. Salt may be used, along with other non-toxic materials. Cuttings will be dewatered to the greatest extent possible and deposited in an adjacent upland sump. Drill water will be recirculated and reused to the greatest extent possible. Excess drill water will be deposited in an adjacent upland sump. Drill equipment will be mobilized by helicopter. Drill holes will be abandoned by cutting the drill stems off at ground level and backfilling any areas of subsidence around drill stems in such a manner as to prevent water accumulation.

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

The property is centred south of the informally named Esker Lake and includes a small lake in the eastern portion of the claim informally named Sheit Lake in past reports. Elevations on the property range from 390 m at Esker Lake to 430 m at the top of Brandon Hill. The Project is located within the Southern Arctic Ecozone and the Takijuk Lake Upland Ecoregion. Much of this region is composed of unvegetated rock outcrops. Organic Cryosols are the dominant soils in the lowlands and permafrost is deep and continuous. The area is characterized by very cold winters, brief cool summers and short fall and spring seasons. Climate data from the nearest weather station at the Lupin Mine, 145 km NE of the property, indicate that mean daily temperatures in the area vary from -30o C in January to +12o C in July and that average annual rainfall is 16.0 cm. The topography is gently undulating with sparse bedrock exposures. Lakes and some swamps cover much of the low lying areas.

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The Project is located within the Southern Arctic Ecozone and the Takijuk Lake Upland Ecoregion. Vegetative cover is characterized by shrub tundra, consisting of dwarf birch, willow, northern Labrador tea, avens species and blueberry species. Characteristic wildlife includes caribou (barren ground caribou of the Bathurst, Beverly and Ahiak herds), muskoxen, grizzly bear, wolverine, Arctic hare, Arctic fox, red fox and wolf. Small mammals (e.g., Arctic ground squirrel, voles, and lemmings) are distributed throughout the region and provide an important food source for predators. Many species of migratory birds are present in the area during the summer season, including waterfowl, raptors, songbirds, and shorebirds, while some bird species are present year-round (e.g., ptarmigan, gyrfalcon, and common raven). The Project is located within the Southern Arctic Ecozone and the Takijuk Lake Upland Ecoregion. The Project also occurs within Area 1 of the Bathurst Caribou Range Planning Area, within the centre of habitation. Bathurst caribou may use the Project area all year, with highest use occurring for summer range.

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The Project occurs within the Kitikmeot Region of Nunavut, predominantly on Crown Land; activities on and adjacent to one of the clam blocks occurs on an Inuit Owned Land (IOL) parcel. The Project also occurs within the Akaitcho Dene First Nations asserted territory, and is also situated within the boundary of the Mōwhi Gogha De Nītlèè. The Project is located 424 km southeast of Kugluktuk, NU, 400 km northeast of Yellowknife, NT and 145 km east - southeast of the Lupin Mine on Contwoyto Lake and south-south west of the Back River Project. Hunting and traditional land use are understood to occur in the area .

Miscellaneous Project Information

Included with this application are the following: Project Description; Engagement Plan; Spill Response Plan; Closure and Reclamation Plan; Waste Management Plan; Environment and Heritage and Heritage Resources Protection Plan (including wildlife); photos of typical work planned.

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See attached impact assessment

Cumulative Effects

Potential effects have been assessed and are considered to be either Negative and Mitigable, or Positive, and as a result, there are no residual effects to be carried forward into a cumulative effects assessment. Further, it is understood that effects such as those to wildlife including sensory disturbance, habituation or attraction, and unintentional interactions may occur through execution of project activities or in combination with other activities that may have a spatial or temporal overlap with the project, such as non-project overflights or traditional land use. However, given the robust mitigation measures proposed and the temporary seasonal nature of the project activities, any cumulative effects that may arise are considered immeasurable and small, intermittent and short term.

Impacts

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$$(P = \langle b \rangle \Delta \langle P \cap \langle a \rangle^{\text{fb}} \rangle^c, N = \langle b \rangle \Delta \langle P' \cup \langle D \rangle \langle a \rangle^{\text{fb}} \rangle^c \langle \langle D \rangle \langle P' \rangle \rangle^{\text{fb}} \langle \langle D \rangle \langle a \rangle^{\text{fb}} \rangle^c \rhd, M = \langle b \rangle \Delta \langle P' \cup \langle D \rangle \langle a \rangle^{\text{fb}} \rangle^c \langle \langle D \rangle \langle P' \rangle \rangle^{\text{fb}} \langle \langle D \rangle \langle a \rangle^{\text{fb}} \rangle^c \rhd, U = \langle b \rangle \Delta \langle \langle a \rangle^{\text{fb}} \rangle^c \rangle^{\text{fb}})$$

1	polygon	Exploration area
2	polygon	Historic exploration camp area
3	point	Historic esker landing strip