



APPLICATION FOR LAND USE PERMIT

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Application fee	Land use fee	General receipt number	Date (YYYYMMDD)	Class	Permit number

To be completed by all applicants ► ☒ New application ☐ Amendment

1. a) Applicant name (full name, no initials) Canada-Nunavut Geoscience Office	Telephone number n/a
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1. b) Applicant address 911-75 Glenburn Court, Hamilton, Ontario	Facsimile number
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2. Head office address 1106 Inuksugait Plaza, Canada-Nunavut Geoscience Office, Iqaluit Nunavut PO Box 2319	Telephone number
	Facsimile number

Field supervisor Lorraine Lebeau	Radio telephone	Email address lorraine.lebeau@nrcan-rncan.gc.ca	Telephone number 867-222-1232
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3. Other personnel (subcontractor, contractors, company staff, etc.)

Sally Perhsson - Geological Survey of Canada

Jamie Cutts - Geological Survey of Canada

2 Field assistants

Kathy Bethune and student - University Regina

Daniel Gibson and student - Simon Fraser University

Wildlife Monitor

Camp cook assistant

helicopter pilot - TBD

engineer- TBD

Total ► \$13.00

4. Qualifications

Refer to Section 21 of the *Territorial Land Use Regulations*

Number exploration permit mineral claims (if applicable)

☐ a(i) ☐ a(ii) ☐ a(iii) ☒ b ☐ c

5. a) Summary of operation (describe purpose, nature and location of all activities)

Refer to Section 22(2)(b) of the *Territorial Land Use Regulations* (use additional information field on last page, if necessary)

The purpose of this application is to request access to Crown Lands for the Bedrock Mapping from Angikuni Lake, a small scale mapping project in the southwestern Kivalliq region, NTS 064J04, 065K01, 065K01 065K08 065J05. The goals of the project are to update the baseline geological information, collect rock samples, field notes, and photographs for government and academic research. The work will largely be Zodiac boat based with possible helicopter support for 7 days. A base camp will be constructed along Angikuni Lake. Up to ten drums of helicopter fuel may be cached at the camp, as well as 3-4 drums of fuel of gasoline and diesel.

b) Indicate if a camp is to be set up (use additional information field on last page, if necessary)

Proposed camp coordinates: 62°13'26.25"N; 99°58'27.85"W

6. Summary of potential environmental and resource impacts

(describe the effects of the proposed program on land, water, flora and fauna and related socio-economic areas)
(use additional information field on last page, if necessary)

Environmental impacts from this project is largely from the use of a helicopter. Immediate risk to the environment from the



helicopter is noise. To decrease stress on animals, we will follow the recommended altitude for aircraft by the Government of Nunavut of 610 meters during point-to-point travel. In addition, we will provide a wide berth to any animals spotted, including migratory birds. Long term impacts of the helicopter include the burning of fossil fuels into the atmosphere, contributing to climate change. To mitigate this, we will mostly be boating as a mode of transportation rather than using the helicopter. To mitigate this, we will only be using a 20 or 25 horse power motor, and stay well away from large mammals. Our stay at a field camp will also impact the environment with the use of water and the production of waste and garbage. The field crew will be advised that water is a precious resource, and that water use should be kept to a minimum. In addition, if wildlife is spotted in the field or around the field camp, all crew members will be advised not to distress any animals. If large mammals are spotted, crew members should give them a wide berth of at least 100m. We will have safety protocols in place for predatory wildlife. The only impact we should have on flora is when we are hiking along the land and we may step on small plants. We will not disturb the flora any further than this. There are no current communities nearby this area, and members of the community of Arviat did not present concern of our presence in this area.

7. Proposed restoration plans (use additional information field on last page, if necessary)

All camp and field equipment will be removed from the camp site immediately following the completion of the field project. The camp site will be cleaned of all debris and returned to their natural state to our best ability. The outhouse pit will be buried, and fuel and empty fuel drums will be transported out of the campsite for proper disposal.

8. Other rights, licences or permits related to this permit application (mineral claims, Yukon timber permits, water licences, etc.)
(use additional information field on last page, if necessary)

We have applied for the Nunavut Planning Commission. We will be applying for: 1) Approval for the Use of Water or Deposit of Waste Without a license from the NWB; and 2) Research License through NRI. We expect that the Nunavut Planning Commission will proceed through the regulatory review process administered by the Nunavut Impact Review Board.

Roads ☐ Is this to be a pioneered road?

☐ Has the route been laid out or ground truthed?

9. Proposed disposal methods (use additional information field on last page, if necessary)

a) Garbage

Combustible garbage/waste will be burned using an incinerator or barrel burner from which the ash will be transported out of the camp site. Non-Combustible materials (glass, aluminium, plastics) will be crushed and transported out of the camp. Fuel drums will be transported out of Nunavut for proper disposal of Hazardous material for recycling.

b) Sewage (sanitary and grey water)

Grey water will be filtered through a grease trap system and deposited into a hand-dug pit in well-drained, sandy soil at the camp site. Sewage waste will be deposited in a hand-dug pit in well-drained sandy soil. Pits will be dug at least 50 metres away from the high water line of any water bodies in the area, and infilled following camp demobilization.

c) Brush and trees

N/A

d) Overburden (organic soils, waste material, etc.)

N/A

10. Equipment (includes drills, pumps, etc.) (use additional information field on last page, if necessary)



	Type and number	Size	Proposed use
1	Homelite AP 125 Water Pump	1860 gal/hour	Pump water for cooking/ cleaning/ consumption
2	Honda Generator	3000 Watt	Power generation for electricity
3	206Bell LR helicopter	n/a	transportation
4	2x Zodiac inflatable boats	4-person	transportation
5	Incinerator	180 lbs	garbage management
6			
7			
8			
9			
10			
11			
12			
13			

11. Fuels	Number of containers	Capacity of containers
<input type="checkbox"/> Diesel		
<input checked="" type="checkbox"/> Gasoline	2-3	45 gallons
<input checked="" type="checkbox"/> Aviation Fuel	10	45 gallons
<input checked="" type="checkbox"/> Propane	2	100 lbs
<input type="checkbox"/> Other		

12. Containment fuel spill contingency plans (attach separate contingency plan if necessary)

If a fuel cache is stored at the camp site. The camp site will have spill kits on site in case of spills. In the case of a spill, the contaminated soil will be removed by shovel and a bucket of contaminated soil will be removed from site for proper disposal. If a large spill occurs, CIRNAC inspectors will be advised. The crew will take photographs and coordinates of the spill site.

13. Methods of fuel transfer (to other tanks, vehicles, etc.)

Methods of fuel transfer are by fixed wing aircraft and possibly helicopter.

14. Period of operation (includes time to cover all phases of project work applied for, including restoration)

July 10th to July 31st, 2023

15. Period of permit (up to two years, with maximum of one year extension)	Start date (YYYYMMDD)	Completion date (YYYYMMDD)
	2023-07-10	2023-12-31

16. Location of activities by map co-ordinates (attach maps and sketches)

	Degrees	Minutes	Seconds		Degrees	Minutes	Seconds
Minimum latitude	▶ 61	50	33	Minimum longitude	▶ 99	30	9.4
Maximum latitude	▶ 62	29	46	Maximum longitude	▶ 101	59	57

Map sheet number

parts of 065K, 065J, 065F, 065G

17. Applicant (print full name)	Signature	Date (YYYYMMDD)
Lorraine Lebeau		2023-03-21



18. Fees		Total
<input type="radio"/> Class A - \$150.00 <input checked="" type="radio"/> Class B - \$150.00		\$150.00
Land use fees: less than or equal to 2 hectares ► <input type="checkbox"/> \$50.00		
For each additional hectare over 2 hectares or portion of a hectare ► x \$50.00 =		
Total application and land use fees ►		\$150.00

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19. Calculation of area involved (includes access, staging areas, airstrips, campsites, etc.)		
Total area (hectares)	Less than or equal to 2 hectares	Total (for fee calculation)
20. Application checklist		
<input type="checkbox"/> a) Application signed and dated	<input type="checkbox"/> e) Screening report	
<input type="checkbox"/> b) Fees attached	<input type="checkbox"/> f) Timber permit applied for - Yukon	
<input type="checkbox"/> c) Map included	<input type="checkbox"/> g) Fees attached	
<input type="checkbox"/> d) Address and telephone number	<input type="checkbox"/> h) Lease applied for	
Remarks		
Accepted by		Date (YYYYMMDD)
21. Additional Information (attach additional pages if necessary)		