



GNWT LAND AND WATER BOARD

P.O. Box 2018, Inuvik, NT X0E 0T0

867-777-4354

867-777-2304

glwb.com

LAND USE PERMIT

Permit Class	Permit No	Amendment No
A	G18Q003	-

Subject to the Mackenzie Valley Resource Management Act, the Mackenzie Valley Land Use Regulations and the terms and conditions in this Permit, authority is hereby granted to:

GNWT Department of Infrastructure

(Permittee)

to proceed with the land use operation described in application of:

Signature Jahangir Hossain	Date June 8, 2018
Type of Land Use Operation Quarrying	
Location Frog Creek Quarry, km 126 Dempster Highway #8 (67°21' 42"N, 134°03' 46"W)	

This permit may be assigned, extended, discontinued, suspended or cancelled pursuant to the Mackenzie Valley Land Use Regulations.

Dated at Inuvik this 24 day of July, 2018

Witness - Leonard DeBastien

Chair - Elizabeth Wright

Commencement Date

Expiry Date

July 24, 2018

July 23, 2023

Note: It is a condition of this Permit that the Permittee comply with the provisions of the Mackenzie Valley Resource Management Act and Regulations and the terms and conditions set out herein. A failure to comply may result in suspension or cancellation of this Permit.

Conditions Annexed to and Forming Part of Land Use Permit # G18Q003

Part A: Scope of Permit

1. This Permit entitles the Permittee to conduct the following land-use operation:
 - a) Extracting, crushing, temporary stockpiling, loading and hauling granular material at Frog Creek Quarry, km 126, Dempster Highway # 8, Northwest Territories
2. This Permit is issued subject to the conditions contained herein with respect to the use of land for the activities and area identified in Part A, item 1 of this Permit.
3. Compliance with the terms and conditions of this Permit does not excuse the Permittee from its obligation to comply with the requirements of any applicable Federal, Territorial or Municipal laws.
4. This Permit is only valid in conjunction with a valid Quarry Permit from the Gwich'in Tribal Council Department of Lands and Resources

Part B: Definitions (defined terms are capitalized throughout the Permit)

Act - the *Mackenzie Valley Resource Management Act*.

Board – the Gwich'in Land and Water Board established under Part 3 of the Act.

Habitat - the area or type of site where a species or an individual of a species of wildlife naturally occurs or on which it depends, directly or indirectly, to carry out its life processes.

Inspector - an Inspector designated by the Minister under the *Act*.

Minister - the Minister of Indian Affairs and Northern Development Canada or the Minister of the Government of the Northwest Territories – Department of Lands, as the case may be.

Ordinary High Water Mark - the usual or average level to which a body of water rises at its highest point and remains for sufficient time so as to change the characteristics of the land. In flowing waters (rivers, streams) this refers to the “active channel/bank-full level” which is often the 1:2 year flood flow return level. In inland lakes, wetlands, or marine environments, it refers to those parts of the Watercourse bed and banks that are frequently flooded by water so as to leave a mark on the land and where the natural vegetation changes from predominately aquatic vegetation to terrestrial vegetation (excepting water tolerant species). For reservoirs, this refers to normal high operating levels (full supply level).

Permittee - the holder of this permit.

Spill Contingency Plan - a document, developed in accordance with Aboriginal Affairs and Northern Development Canada’s *Guidelines for Spill Contingency Planning* (April 2007, that describes the set of procedures to be implemented to minimize the effects of a spill.

Secondary Containment - containment that prevents liquids that leak from Fuel Storage Tanks or containers from reaching outside the containment area and includes double-walled Tanks, piping, liners, and impermeable barriers.

Waste - any garbage, debris, chemical, or Toxic Material to be used, stored, disposed of, or handled on land, and also as defined in section 51 of the Act.

Watercourse - a natural body of flowing or standing water or an area occupied by water during part of the year, and includes streams, springs, swamps and gulches but does not include groundwater.

Part C: Conditions Applying to All Activities (headings correspond to subsection 26(1) of the Mackenzie Valley Land Use Regulations)

26(1)(a) Location and Area

- | | | |
|----|--|-------------------------------|
| 1. | The Permittee shall not conduct this land-use operation on any lands not designated in the complete application. | LOCATION OF ACTIVITIES |
| 2. | The Permittee shall not conduct a quarry operation within 100 metres of the Ordinary High Water Mark of any Watercourse, unless otherwise authorized in writing by an Inspector. | QUARRY SETBACK |
| 3. | The Permittee shall only stockpile in areas designated in the Access Authorization, issued by GTC Lands and Resources. | EXCAVATE STOCKPILE |
| 4. | Prior to the commencement of the land-use operation, the Permittee shall mark each corner of the land use area. | MARK AREA |
| 5. | The Permittee shall maintain the corner markings until the area is reclaimed. | CORNER POSTS |
| 6. | Prior to the commencement of the land-use operation, the Permittee shall accompany an Inspector during an inspection of the proposed land use area. | INSPECT LOCATIONS |

26(1)(b) Time

- | | | |
|-----|---|-------------------------------|
| 7. | At least 48 hours prior to the commencement of the land-use operation, the Permittee's Field Supervisor shall contact an Inspector at (867) 777-8900. | CONTACT INSPECTOR |
| 8. | At least 48 hours prior to commencement of the land-use operation, the Permittee shall provide the following information, in writing, to the Board and an Inspector:
a) the name(s) of the person(s) in charge of the field operation;
b) alternates; and
c) all methods for contacting the above person(s). | IDENTIFY AGENT |
| 9. | At least ten days prior to the completion of the land-use operation, the Permittee shall advise an Inspector of:
a) the plan for removal or storage of equipment and materials; and
b) when final cleanup and reclamation of the land used will be completed. | REPORTS BEFORE REMOVAL |
| 10. | The Permittee shall complete all clean up and restoration of the lands used prior to the expiration date of this Land Use Permit. | CLEAN-UP |
| 11. | The Board and/or Inspector reserves the right to impose closure of any area to the Permittee during periods when dangers to natural resources are severe. | CLOSURE |

26(1)(c) Type and Size of Equipment

12. The Permittee shall not use any equipment except of a similar type, size, and number to that listed in the complete application. **ONLY APPROVED EQUIPMENT**

26(1)(d) Methods and Techniques

13. The Permittee shall not quarry to a depth below that of the water table. Do not quarry below existing pit floor. **QUARRY DEPTH**

26(1)(e) Type, Location, Capacity, and Operation of All Facilities

14. The Permittee shall ensure that the land use area is kept clean at all times. **CLEAN WORK AREA**

26(1)(f) Control or Prevention of Ponding of Water, Flooding, Erosion, Slides, and Subsidence of Land

15. The land-use operation shall not cause obstruction to any natural drainage. **NATURAL DRAINAGE**

16. The Permittee shall minimize erosion by installing erosion control structures as the land-use operation progresses. **PROGRESSIVE EROSION CONTROL**

17. The Permittee shall slope the sides of material piles, excavations, and embankments — except in solid rock — to a minimum ratio of 2:1 vertical, unless otherwise authorized in writing by an Inspector **EXCAVATION AND EMBANKMENTS**

26(1)(g) Use, Storage, Handling, and Ultimate Disposal of Any Chemical or Toxic Material

18. The Permittee shall not, in any circumstances, deposit or allow the deposit of any deleterious substances (including but not limited to fuels, lubricants, hydraulics, and coolants) of any type into any waters, or in any place under any conditions where the deleterious substances may enter any waters. **DEPOSITING DELETERIOUS SUBSTANCES**

19. The Permittee shall maintain a record of all spills. For all reportable spills, in accordance with the GNWT *Spill Contingency Planning and Reporting Regulations*, the Permittee shall:
- a) immediately report each spill to the 24-hour Spill Report Line (867) 920-8130;
 - b) report each spill to an Inspector within 24 hours; and
 - c) submit, to the Board and an Inspector, a detailed report on each spill within 30 days.
- REPORT SPILLS**

20. At least seven days prior to the use of any chemicals that were not identified in the complete application, the MSDS sheets must be provided to the Board and an Inspector. **CHEMICALS**

- | | | |
|-----|--|-------------------------------------|
| 21. | The Permittee shall dispose of all Toxic Materials and combustible Waste petroleum products by removal to an approved disposal facility. | WASTE PETROLEUM
DISPOSAL |
|-----|--|-------------------------------------|

26(1)(h) Wildlife and Fish Habitat

- | | | |
|-----|---|-----------------------|
| 22. | The Permittee shall take all reasonable measures to prevent damage to wildlife and fish Habitat during this land-use operation. | HABITAT DAMAGE |
|-----|---|-----------------------|

26(1)(i) Storage, Handling, and Disposal of Refuse or Sewage

- | | | |
|-----|---|------------------------------|
| 23. | The Permittee shall keep all garbage, Waste, and debris in a secure container until disposal. | GARBAGE
CONTAINER |
|-----|---|------------------------------|

- | | | |
|-----|---|-----------------------|
| 24. | The Permittee shall dispose of all garbage, Waste, and debris as described in the approved Waste Management Plan, unless otherwise authorized in writing by an Inspector. | REMOVE GARBAGE |
|-----|---|-----------------------|

26(1)(j) Protection of Historical, Archaeological, and Burial Sites

- | | | |
|-----|--|----------------------------------|
| 25. | The Permittee shall not operate any vehicle or equipment within 150 metres of a known or suspected historical or archaeological site or burial ground. | ARCHAEOLOGICAL
BUFFER |
|-----|--|----------------------------------|

- | | | |
|-----|---|-------------------------|
| 26. | The Permittee shall not knowingly remove, disturb, or displace any archaeological specimen or site. | SITE DISTURBANCE |
|-----|---|-------------------------|

- | | | |
|-----|---|--|
| 27. | The Permittee shall, where a suspected archaeological or historical site, or burial ground is discovered: | SITE DISCOVERY AND
NOTIFICATION |
| | a) immediately suspend operations on the site; and | |
| | b) notify the Board at (867) 777-4954 or an Inspector at (867) 777-8906, and the Prince of Wales Northern Heritage Centre at 767-9347 ext. 71250 or ext. 71251. | |

26(1)(k) Objects and Places of Recreational, Scenic, and Ecological Value

- | | | |
|-----|---|------------------------|
| 28. | The Permittee shall take all reasonable precautions to avoid impacts to traditional harvest activities. | TRADITIONAL USE |
|-----|---|------------------------|

26(1)(l) Security Deposit

- | | | |
|-----|--|--|
| 29. | All costs to remediate the area under this Permit are the responsibility of the Permittee. | RESPONSIBILITY FOR
REMEDICATION
COSTS |
|-----|--|--|

26(1)(m) Fuel Storage

30.	The Permittee shall not allow petroleum products to spread to surrounding lands or Watercourses.	FUEL CONTAINMENT
31.	The Permittee shall not store any fuel on site during this landuse operation.	FUEL STORAGE
32.	All equipment that may be parked for two hours or more, shall have a drip tray under it or be sufficiently diapered. Leaky equipment shall be repaired immediately.	DRIP TRAYS
33.	The Permittee shall set up all refueling points with Secondary Containment.	SECONDARY CONTAINMENT - REFUELING
34.	The Permittee shall adhere to the Spill Contingency Plan submitted to the Board on December 6, 2017, and shall annually review the plan and make any necessary revisions to reflect changes in operations, technology, chemicals, or fuels, or as directed by the Board. Revisions to the plan shall be submitted to the Board for approval.	SPILL CONTINGENCY PLAN
35.	Prior to commencement of the land-use operation the Permittee shall ensure that spill-response equipment is in place to respond to any potential spills.	SPILL RESPONSE
36.	The Permittee shall clean up all leaks, spills, and contaminated material.	CLEAN UP SPILLS
26(1)(n) Methods and Techniques for Debris and Brush Disposal		
37.	The Permittee shall not clear areas larger than identified in the complete application.	MINIMIZE AREA CLEARED
26(1)(o) Restoration of the Lands		
38.	All areas affected by construction or removal activities shall be stabilized and landscaped to their pre-construction profiles, unless otherwise authorized in writing by an Inspector	PRE-CONSTRUCTION PROFILES
39.	The Permittee shall level all stockpiles of granular material located within the land use area prior to the expiry date of this Permit.	LEVEL STOCKPILES
40.	Prior to the expiry date of this Permit, the Permittee shall complete all cleanup and restoration of the lands used.	FINAL CLEANUP AND RESTORATION
26(1)(p) Display of Permits and Permit Numbers		
41.	The Permittee shall keep a copy of this Permit on hand at all times during this land-use operation.	COPY OF PERMIT
26(1)(q) Biological and Physical Protection of the Land		
42.	The Permittee shall suspend activities temporarily if one or more caribou are spotted within five hundred (500) metres of the work site.	CARIBOU DISTURBANCE

43. If migratory birds or their nesting areas, or any species at risk are encountered during the course of operations, the Permittee shall minimize all activity so as to not disturb these animals.

**MIGRATORY BIRD
DISTURBANCE**