

## Conditions Annexed to and Forming Part of Land Use Permit # W2019S0001

### Part A: Scope of Permit

1. This Permit entitles the Permittee to conduct the following land-use operation:
  - a) Use of power-driven, earth drilling machinery for the purpose of a geotechnical investigation
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, Tłıchǫ, or Municipal laws.

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

**Act** - the *Mackenzie Valley Resource Management Act*.

**Archaeological Impact Assessment** - archaeological research as defined by the Prince of Wales Northern Heritage Centre *Guidelines for Developers for the Protection of Archaeological Sites in the Northwest Territories*.

**Archaeological Overview** - a study of archaeological sites as defined by the Prince of Wales Northern Heritage Centre *Guidelines for Developers for the Protection of Archaeological Sites in the Northwest Territories*.

**Board** - the Mackenzie Valley Land and Water Board established under Part 4 of the Act.

or

**Board** - the [regional panel] Land and Water Board established under Part 3 of the Act.

**Borehole** - a hole that is made in the surface of the ground by drilling or boring.

**Closure and Reclamation** - the process and activities that facilitate the return of areas affected by the Project to viable and, wherever practicable, self-sustaining ecosystems that are compatible with a healthy environment, human activities, and the surrounding environment.

**Drilling Fluid** - any liquid mixture of water, sediment, drilling muds, chemical additives or other wastes that are pumped down hole while drilling and are specifically related to drilling activity.

**Drilling Waste** - all materials or chemicals, solid or liquid, associated with drilling, including drill cuttings and Drilling Fluids.

**Flowing Artesian Well** - a well in which water:

- a) Naturally rises above the ground surface or the top of any casing; and

b) Flows naturally, either intermittently or continuously.

**Fuel Storage Container** - a container for the storage of petroleum or allied petroleum products with a capacity of less than 230 litres.

**Fuel Storage Tank** - a closed container for the storage of petroleum or allied petroleum products with a capacity of more than 230 litres.

**Greywater** - all liquid wastes from showers, baths, sinks, kitchens, and domestic washing facilities but not including toilet wastes.

**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.

**Permafrost** - ground (soil or rock) that remains at or below 0°C for at least two consecutive years.

**Progressive Reclamation** - Closure and Reclamation activities conducted during the operating phase of the project.

**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.

**Sewage** - all toilet wastes and Greywater.

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

**Safety Data Sheet** - a technical document, typically written by the manufacturer or supplier of a chemical, that provides information about the hazards associated with the product, advice about safe handling and storage, and emergency response procedures.

**Toxic Material** - any substance that enters or may enter the environment in a quantity or concentration or under conditions such that it:

- a) Has or may have an immediate or long-term harmful effect on the environment or its biological diversity;
- b) Constitutes or may constitute a danger to the environment on which life depends; or
- c) Constitutes or may constitute a danger in Canada to human life or health.

**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.

**Waste Management Plan** - a document, developed in accordance with the Board's Guidelines for Developing a Waste Management Plan, that describes the methods of Waste management from Waste generation to final disposal.

**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**

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| 1. The Permittee shall only conduct this land-use operation on lands designated in the application.  | <b>LOCATION OF ACTIVITIES</b> |
| 2. Prior to the commencement of drilling, the Permittee shall submit the target areas and final drill hole locations on a 1:50,000-scale map with coordinates and map datum to the Board and an Inspector.   | <b>DRILL LOCATIONS</b>        |
| 3. The Permittee shall not conduct a drilling operation or construct an adit or drill site within <span style="background-color: yellow;">    </span> metres of the Ordinary High-Water Mark of any Watercourse, unless otherwise authorized in writing by an Inspector. | <b>DRILLING/ ADIT SETBACK</b> |
| 4. Prior to the commencement of the land-use operation, the Permittee shall accompany an Inspector during an inspection of the proposed land use area.   | <b>INSPECT LOCATIONS</b>      |

**26(1)(b) Time**

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| 5. At least 48 hours prior to the initial commencement of the land-use operation, the Permittee's Field Supervisor shall contact an Inspector at (867) _____   | <b>INITIAL NOTIFICATION – CONTACT INSPECTOR</b> |
| 6. 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:<br>a) the name(s) of the person(s) in charge of the field operation;<br>b) alternates; and<br>c) all methods for contacting the above person(s). | <b>IDENTIFY AGENT</b>                           |
| 7. At least ten days prior to the completion of the land-use operation, the Permittee shall advise an Inspector of:<br>a) the plan for removal or storage of equipment and materials;<br>b) when final cleanup and reclamation of the land used will be completed; and<br>c) when the Final Plan will be submitted.      | <b>REPORTS BEFORE FINAL REMOVAL</b>             |

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

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| 8. The Permittee shall only use equipment of a similar type, size, and number to that listed in the complete application. | <b>USE APPROVED EQUIPMENT</b> |
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**26(1)(d) Methods and Techniques**

9. Prior to the expiry end of the land-use operation, the Permittee shall replace all excavated material, unless otherwise authorized in writing by an Inspector.

**EXCAVATED MATERIAL  
TEST PITS**

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

10. 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**

11. The land-use operation shall not cause obstruction to any natural drainage.

**NATURAL DRAINAGE**

12. The Permittee shall install and maintain suitable erosion control structures as the land-use operation progresses.

**PROGRESSIVE EROSION  
CONTROL**

13. The Permittee shall apply appropriate mitigation at the first sign of erosion.

**REPAIR  
EROSION**

14. The Permittee shall, where flowing water from a Borehole is encountered:

**FLOWING ARTESIAN WELL**

- a) plug the Borehole in such a manner as to permanently prevent any further outflow of water; and
- b) immediately report the occurrence to the Board and an Inspector.

15. The Permittee shall prepare the site in such a manner as to prevent rutting or gouging of the ground surface.

**PREVENTION OF RUTTING**

16. The Permittee shall suspend overland travel of equipment or vehicles at the first sign of rutting or gouging.

**SUSPEND OVERLAND  
TRAVEL**

17. The Permittee shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging.

**VEHICLE MOVEMENT  
FREEZE-UP**

18. The Permittee shall not remove vegetation or operate heavy equipment within      metres of the Ordinary High-Water Mark of any Watercourse.

**EQUIPMENT:  
WATERCOURSE BUFFER**

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

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

20. The Permittee shall provide written notification to the Board and Inspector a minimum of 10 days prior to the initial deposit of Waste, demonstrating that the licenced disposal facility has agreed to accept the Waste and has the capacity to receive the volumes of Waste requested. **NOTIFICATION OF SOLID WASTE DISPOSAL**

**26(1)(h) Wildlife and Fish Habitat**

21. 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**

22. The Permittee shall keep all garbage and debris in a secure container until disposal. **GARBAGE CONTAINER**

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

23. 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**

24. The Permittee shall not knowingly remove, disturb, or displace any archaeological specimen or site. **SITE DISTURBANCE**

25. 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) \_\_\_\_\_ or an Inspector at (867) \_\_\_\_\_, and the Prince of Wales Northern Heritage Centre at 767-9347 ext. 71250 or ext. 71251.

26. At least        days prior to any new land disturbance, including new drill sites, the Permittee shall conduct an Archaeological Overview to identify areas of high and low potential for archaeological and burial sites and shall submit a summary report to the Board and the Prince of Wales Northern Heritage Centre. **ARCHAEOLOGICAL OVERVIEW**

27. Prior to disturbance in areas of high potential for archaeological or burial sites identified in the Archaeological Overview, the Permittee shall conduct an Archaeological Impact Assessment of the sites where disturbance is planned and shall submit a summary report to the Board and the Prince of Wales Northern Heritage Centre. **AIA – HIGH POTENTIAL**
- 26(1)(k) Objects and Places of Recreational, Scenic, and Ecological Value**
28. The Permittee shall not conduct any activity within [REDACTED]. [A buffer zone, e.g. 500 m from Jackfish lake, or predefined area, e.g. the Yellowknife River watershed] **BUFFER / NO ACTIVITY**
- 26(1)(l) Security Deposit**
29. All costs to remediate the area under this Permit are the responsibility of the Permittee. **RESPONSIBILITY FOR REMEDIATION COSTS**
- 26(1)(m) Fuel Storage**
30. The Permittee shall:
- a) examine all Fuel Storage Containers and Tank for leaks; and
  - b) repair all leaks immediately. **REPAIR LEAKS**
31. The Permittee shall place Fuel Storage Containers and or Tanks a minimum of [REDACTED] metres from the Ordinary High-Water Mark of any Watercourse, unless otherwise authorized in writing by an Inspector. **FUEL STORAGE SETBACK**
32. The Permittee shall set up all refueling points with Secondary Containment. **SECONDARY CONTAINMENT - REFUELING**
33. The Permittee shall not allow petroleum products to spread to surrounding lands or Watercourses. **FUEL CONTAINMENT**
34. The Permittee shall mark all Fuel Storage Containers and Tanks with the Permittee's name. **MARK CONTAINERS AND TANKS**
35. The Permittee shall have a maximum of [REDACTED] litres of fuel stored on the land use site at any time, unless otherwise approved by the Board. **MAXIMUM FUEL ON SITE**
36. The Permittee shall adhere to the **Spill Contingency Plan**, once approved, and shall annually review the plan and make any necessary revisions to reflect changes in operations, technology, **SPILL CONTINGENCY PLAN**

chemicals, or fuels, or as directed by the Board. Revisions to the plan shall be submitted to the Board for approval.

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| 37. 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.  | <b>SPILL RESPONSE</b>  |
| 38. All equipment that may be parked for two hours or more, shall have a haz-mat/drip tray under it or be sufficiently diapered. Leaky equipment shall be repaired immediately.   | <b>DRIP TRAYS</b>      |
| 39. The Permittee shall clean up all leaks, spills, and contaminated material immediately   | <b>CLEAN UP SPILLS</b> |
| 40. During the period of this Permit, if a spill occurs or is foreseeable, the Permittee shall:<br>a) implement the approved Spill Contingency Plan;<br>b) report it-immediately using the NU-NT Spill Report Form by one of the following methods: <ul style="list-style-type: none"><li>• Telephone: (867) 920-8130</li><li>• Fax: (867) 873-6924</li><li>• E-mail: <a href="mailto:spills@gov.nt.ca">spills@gov.nt.ca</a></li><li>• <u>Online: Spill Reporting and Tracking Database</u></li></ul><br>c) within 24 hours, notify the Board and an Inspector; and<br>d) within 30 days of initially reporting the incident, submit a detailed report to the Board and an Inspector, including descriptions of causes, response actions, and any changes to procedures to prevent similar occurrences in the future. Any updates to this report shall be provided to the Board and an Inspector in writing as changes occur. | <b>REPORT SPILLS</b>   |

**26(1)(n) Methods and Techniques for Debris and Brush Disposal**

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| 41. The Permittee shall progressively dispose of all brush and trees; all disposal shall be completed prior to the end of this land use operation         | <b>BRUSH DISPOSAL/ TIME</b>    |
| 42. The Permittee shall not clear areas larger than identified in the complete application.   | <b>MINIMIZE AREA CLEARED</b>   |
| 43. The Permittee shall not use any self-propelled machinery for clearing the brush.  | <b>HAND CREWS ONLY</b>         |
| 44. The Permittee shall clear by hand all trees and brush a minimum distance of ____ metres from the top edge of all stream banks and top edge of slopes. | <b>CLEARING SENSITIVE AREA</b> |



**26(1)(o) Restoration of the Lands**

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| 45. 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.                | <b>PRE-CONSTRUCTION<br/>PROFILES</b>     |
| 46. The Permittee shall save the organic soil stripped from the land use area and shall use the organic soil for reclamation as approved by the Board, or otherwise authorized in writing by an Inspector. | <b>SAVE AND PLACE ORGANIC<br/>SOIL</b>   |
| 47. Prior to the end of the land-use operation, the Permittee shall complete all cleanup and restoration of the lands used.  | <b>FINAL CLEANUP AND<br/>RESTORATION</b> |
| 48. The Permittee shall carry out Progressive Reclamation of disturbed areas as soon as it is practical to do so.  | <b>PROGRESSIVE<br/>RECLAMATION</b>       |

**26(1)(p) Display of Permits and Permit Numbers**

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| 49. The Permittee shall display a copy of this Permit in each campsite established to carry out this land-use operation. | <b>DISPLAY PERMIT</b> |
| 50. The Permittee shall keep a copy of this Permit on hand at all times during this land-use operation.                  | <b>COPY OF PERMIT</b> |

**26(1)(q) Biological and Physical Protection of the Land**

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| 51. If nesting areas are encountered during the course of operations, the Permittee shall minimize all activity so as to not disturb them.                       | <b>MIGRATORY BIRD<br/>NEST DISTURBANCE</b> |
| 52. Prior to the commencement of the land-use operation, the Permittee shall submit a revised Spilled Contingency Plan to the Board for approval.                | <b>SUBMIT REVISED PLAN</b>                 |
| 53. If any plan is not approved by the Board, the Permittee shall revise the plan according to the Board's direction and re-submit it to the Board for approval. | <b>RESUBMIT PLAN</b>                       |
| 54. All revised plans submitted to the Board shall include a brief summary of the changes made to the plan.  | <b>SUMMARY OF CHANGES</b>                  |