



Aboriginal Affairs and
Northern Development Canada

Affaires autochtones et
Développement du Nord Canada

Land Administration
P.O. Box 100
IQALUIT, NU X0A 0H0
Phone: 867-975-4275
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Your file - Votre référence

June 4th, 2012

Our file - Notre référence

Jason Akearok
Habitat Biologist, Eastern Arctic Unit, CWS
P.O. Box 1714
Iqaluit, NU
X0A 0H0

Dear Jason Akearok:

Re: Land Use Permit #N2012N0015
Type of Operation: Research Project
Location: Queens Channel, Baffin, NU, NTS 68H16

Enclosed is your copy of Land Use permit number N2012N0015 authorizing your project as described in your application dated April 3rd, 2012, received by this office May 15th, 2012.

Your application has received a wide distribution through a Land Advisory Committee, which consists of other Federal departments, Government of the Nunavut departments, communities in the area of your operation and concerned Inuit groups. In distributing your application we sought comments from the Land Advisory Committee based on their area of expertise that will help ensure minimum negative impact on the environment. The issuance of this permit indicates that as a result of the Land Advisory Committee screening process it was decided that the potentially adverse environmental effects that may be caused by your proposal are mitigable with known technology and are not significant. The terms and conditions in the permit will, in our opinion, provide the necessary protection to the environment.

Please ensure that you adhere to the operating conditions annexed to your permit. Should you have any questions regarding any conditions of this permit, please contact Tracey McCaie at (867) 975-4283 or email, landsmining@inac.gc.ca.

Sincerely,

Tracey McCaie
Land Administrator Specialist

cc: Manager, Field Operations
RMO - Baffin
NIRB
NPC

CIDMS #534113

Canada

**CONDITIONS ANNEXED TO AND FORMING PART
OF LAND USE PERMIT NUMBER N2012N0015**

31 (1) (a) - Location and Area

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| 1 | The Permittee shall not conduct this land use operation on any lands not designated in the accepted application, unless otherwise authorized in writing by the Engineer. | PLANS |
| 2 | The Permittee shall remove from Territorial Lands, all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material. | REMOVE WASTE MATERIAL |
| 3 | The Permittee shall locate all camps on gravel, sand or other durable land. | CAMP LOCATION |
| 4 | The Permittee shall provide updated locations of all infrastructures and drill sites related to this project in Latitude and Longitude from a GPS within thirty (30) days of the establishment of the infrastructure and fuel caches to the Inspector and Engineer. | UPDATE LOCATIONS |

31 (1) (b) – Time

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| 5 | The Permittee's Field Supervisor shall contact or meet with a Land Use Inspector at the Iqaluit office of the Department of Indian Affairs and Northern Development, phone number (867) 975-4296, at least 48 hours prior to the commencement of this land use operation. | CONTACT INSPECTOR |
| 6 | The Permittee shall advise a Land Use Inspector at least ten (10) days prior to the completion of the land use operation of ; a) the plan for removal or storage of equipment and materials, and b) when final clean-up and restoration of the lands used will be completed. | REPORTS BEFORE REMOVAL |
| 7 | The Permittee shall notify a Land Use Inspector at least ten (10) days prior to backfilling any sump. | BACKFILLING NOTIFICATION |
| 8 | The Permittee shall commence and foster revegetation on all parts of the land used, as may be directed by a Land Use Inspector, within one year of the completion of the land use operation. | RE-ESTABLISH VEGETATION |
| 9 | The Permittee shall complete all clean-up and restoration of the lands used prior to the expiry date of this permit. | CLEAN-UP |
| 10 | The Engineer reserves the right to impose closure to any area to the Permittee in periods when dangers to natural resources are severe. | CLOSURE |

31 (1) (c) - Equipment

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| 11 | The Permittee shall not use any equipment except of the type, size and number that is listed in the accepted application, unless otherwise authorized in writing by the Land Use Inspector. | ONLY APPROVED EQUIPMENT |
| 12 | The Permittee shall use a forced-air fuel-fired incinerator to incinerate all combustible garbage and debris. | INCINERATORS |
| 13 | The Permittee shall burn all combustible garbage and debris in a container acceptable to a Land Use Inspector. | INCINERATION |
| 14 | The Permittee shall keep all garbage and debris in a covered metal container until disposed of. | GARBAGE CONTAINERS |
| 15 | The Permittee shall, in camps of five (5) personnel or less, maintain the following fire fighting equipment in the base camp and in active readiness: (a) Two (2) back-pack bags or cans complete with hand pumps. (b) At least one of each of the following: pulaskis, axes, shovels. | FIRE FIGHTING EQUIPMENT |

31 (1) (d) - Methods and Techniques

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| 16 | The Permittee shall not erect camps or store material on the surface ice of lakes or streams except that which is for immediate use. | STORAGE ON ICE |
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31 (1) (e) - Type, Location, Capacity and Operation of Facilities

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| 17 | The Permittee shall not locate any sump within thirty-one (31) metres of the normal high water mark of any stream. "Sump" means a man-made pit, trench hollow or cavity in the earth's surface used for the purpose of depositing waste material therein. | SUMPS FROM WATER |
| 18 | The Permittee shall ensure that all sump/depression capacities are sufficient to accommodate the volume of waste water and any fines that are produced. | SUMP CAPACITY |
| 19 | The Permittee shall maintain all drill wastes at least 1.2 metres below the lowest elevation of contiguous surrounding ground surface at all times. | SUMPS FREEBOARD |
| 20 | The Permittee shall backfill and restore all sumps prior to the expiry date of this permit. | BACKFILL SUMPS |
| 21 | The Permittee shall backfill all sumps in such a manner that drill waste is maintained below the 1.2 metre freeboard. | BACKFILL SUMPS HOW |

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| 22 | The Permittee shall: (a) place all excavated material over the sump area. overlap the replaced material a minimum of two (2) metres beyond the edges of the existing sump wall. | BACKFILL SUMP OVERLAP |
| 23 | The Permittee shall ensure that the land use area is kept clean and tidy at all times. | CLEAN WORK AREA |

31 (1) (f) - Control or Prevention of Flooding, Erosion and Subsidence of Land

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| 24 | The Permittee shall remove any obstruction to natural drainage caused by any part of this land use operation. | NATURAL DRAINAGE |
| 25 | The Permittee shall not cut any stream bank unless authorized in writing by a Land Use Inspector. | STREAM BANKS |
| 26 | The Permittee shall prepare the site in such a manner as to prevent rutting of the ground surface. | PREVENTION OF RUTTING |
| 27 | The Permittee shall ensure that all disturbed areas are restored to a stable or pre-disturbed state as practical as possible upon completion of field work. | RESTORE DISTURBED AREAS |

31 (1) (g) - Use, Storage, Handling and Disposal of Chemical or Toxic Material

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| 28 | The Permittee shall not use chemicals in connection with the land use operation without the prior approval of the Engineer. | APPROVAL OF CHEMICALS |
| 29 | The Permittee shall deposit all sewage into a sump. | SEWAGE DISPOSAL |
| 30 | The Permittee shall remove all garbage and debris from the area of the land use operation to a disposal site approved in writing by a Land Use Inspector. | REMOVE GARBAGE |
| 31 | The Permittee shall dispose of all combustible waste petroleum products by removal. | WASTE PETROLEUM DISPOSAL |
| 32 | The Permittee shall dispose of all toxic or persistent substances in a manner as approved in writing by the Engineer. | WASTE CHEMICAL DISPOSAL |
| 33 | The Permittee shall ensure that all disturbed areas are restored to a stable or pre-disturbed state as practical as possible upon completion of field work. | RESTORE DISTURBED AREAS |

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| 34 | The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report" form NWT 1752(05/93). Twenty four (24) hour spill report line (867)920-8130. | REPORT CHEMICAL AND PETROLEUM SPILLS |
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31 (1) (h) - Wildlife and Fisheries Habitat

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| 35 | The Permittee shall not unnecessarily damage wildlife habitat in conducting this land use operation. | HABITAT DAMAGE |
| 36 | <p>a) During migration of caribou, the Permittee shall not locate any operation so as to block or cause substantial diversion of migration.</p> <p>b) The Permittee shall cease activities that may interfere with migration, such as airborne geophysics surveys or movement of equipment, until the migrating caribou have passed</p> | CARIBOU PROTECTION MIGRATION |
| 37 | The Permittee shall not harass wildlife. This includes persistently worrying or chasing animals, or disturbing large groups of animals. | NO HARASSING WILDLIFE |
| 38 | Your operation is in an area where bears may be encountered. Proper food handling and garbage disposal procedures will lessen the likelihood of bears being attracted to your operation. | BEAR/MAN CONFLICT |
| 39 | The Permittee shall restrict aircraft/helicopter activity related to the project to a minimum altitude of 610 m above ground level unless there is a specific requirement for low-level flying, which does not disturb wildlife and migratory birds. Ensure that aircraft maintain a vertical distance of 1000 m and a horizontal distance of 1500 m from any observed groups (colonies) of migratory birds. It is recommended aircraft avoid critical and sensitive wildlife areas at all times by choosing alternate flight corridors. The Permittee shall also advise all pilots of relevant flight restrictions and enforce their application over the project area and flight paths to/from the project area. | LOW LEVEL FLIGHT RESTRICTIONS |
| 40 | During the period of May 15 to July 15 when caribou are observed within 1 km of project operations, the Permittee shall suspend all operations, including low-level over flights, blasting, and use of snow mobiles and all terrain vehicles outside the immediate vicinity of the camps. Following July 15, if caribou cows or calves are observed within 1 km of project operations, the Proponent shall also suspend all operations in the vicinity, including low-level over flights, blasting, and use of snow mobiles and all terrain vehicles, until caribou are no longer in the immediate area. | WILDLIFE SENSITIVITIES |
| 41 | Prior to significant operational movements (i.e. before moving drill rigs), the proponent should undertake high altitude (>610 m) aerial reconnaissance with the assistance of an independent wildlife monitor, to determine whether caribou cows and calves are present within a 20 km radius of the camp or drill sites, or if caribou are migrating close by. If caribou are observed the monitor will instruct the proponent to suspend any activities within 10 km of the sightings. | RESTRICTION ON OPERATIONAL MOVEMENT |

31 (1) (i) - Objects and Places of Recreational, Scenic and Ecological Value

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| 42 | The Permittee shall not feed wildlife. | NO FEEDING WILDLIFE |
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31 (1) (k) - Petroleum Fuel Storage

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| 43 | The Permittee shall report in writing to a Land Use Inspector the location and quantity of all petroleum fuel caches within ten (10) days after the establishment. | REPORT FUEL LOCATION |
| 44 | The Permittee shall not place any petroleum fuel storage containers within thirty-one (31) metres of the normal high water mark of any stream. | FUEL BY STREAM |
| 45 | The Permittee shall not allow petroleum products to spread to surrounding lands or into water bodies. | FUEL CONTAINMENT |
| 46 | The Permittee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container. | FUEL EXTRA CONTAINER |
| 47 | The Permittee shall: a) examine all fuel storage containers for leaks a minimum of once every day. b) repair all leaks immediately. | CHECK FOR LEAKS |
| 48 | The Permittee shall mark all stationary petroleum products storage facilities with flags, posts or similar devices so that they are at all times plainly visible to local vehicle travel. | MARK FUEL LOCATION |
| 49 | The Permittee shall seal all container outlets except the outlet currently in use. | SEAL OUTLET |
| 50 | The Permittee shall mark all fuel containers with the Permittee's name. | MARK CONTAINERS |

31 (1) (m) - Matters Not Inconsistent with the Regulations

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| 51 | The Permittee shall display a copy of this permit in a conspicuous place in each campsite established to carry out this land use operation. | DISPLAY PERMIT |
| 52 | The Permittee shall keep on hand, at all times during this land use operation, a copy of the Land Use Permit. | COPY OF PERMIT |

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| 53 | <p>The Permittee shall provide in writing to the Engineer, at least forty-eight (48) hours prior to commencement of this land use operation, the following information:</p> <ul style="list-style-type: none"> a) person, or persons, in charge of the field operation to whom notices, orders, and reports may be served; b) alternates; c) all the indirect methods for contacting the above person(s). | IDENTIFY AGENT |
| 54 | <p>The Permittee shall conspicuously display the land use permit number on all vehicles and equipment.</p> | DISPLAY PERMIT NUMBER |
| 55 | <p>The Permittee shall abide by and comply with all applicable lawful rules, acts, regulations, and by-laws of Canada, Nunavut, any Municipal or regulatory body or authority having jurisdiction, the Nunavut Land Claim Agreement, and all other agreements, permits, licenses, and other instruments whatsoever related to the project.</p> | ADHERENCE TO LAWFUL RULES, ACTS, REGS & BYLAWS |
| 56 | <p>The Permittee shall avoid any known or suspected archaeological and/or paleontological sites.</p> | AVOIDANCE OF ARCHAEOLOGICAL AND/OR PALEONTOLOGICAL SITES |
| 57 | <p>The Permittee shall not remove, disturb, or displace any archaeological artifact or site, or any paleontological site or fossil.</p> | DISTURBANCE OF ARCHAEOLOGICAL AND/OR PALEONTOLOGICAL SITE |
| 58 | <p>The Permittee shall immediately cease any activity should a suspected archaeological, paleontological, or burial site be discovered during the course of a land use operation. The Permittee is required to immediately contact the Land Administration division at Indian and Northern Affairs Canada at (867)975-4283 or (867)975-4285 or (867)975-4280 as well as the Department of Culture, Language, Elders and Youth at (867)934-2046 or (867)975-5500 or 1(866)934-2035.</p> <p>Permission to resume land use operations must be obtained from the Engineer. At such time the Engineer may, at his/her discretion, require that you have an archaeologist or palaeontologist perform the following functions:</p> <ul style="list-style-type: none"> (a) Survey (b) Inventory and documentation of the archaeological or paleontological resources of the land use area (c) Assessment of potential for damage to archaeological or paleontological sites (d) Mitigation (e) Marking boundaries of archaeological or paleontological sites (f) Site restoration | CEASE OPERATION OF LAND USE ACTIVITY |

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| 59 | The Permittee shall ensure that all persons working under the authority of the permit are aware of these conditions pertaining to archaeological sites and artifacts as well as paleontological sites and fossils. | KNOWLEDGE OF ARCHAEOLOGICAL AND PALEONTOLOGICAL TERMS AND CONDITIONS |
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CIDM# 533934