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February 14, 2020

File: MV2019C0031

Mr. Mark Cliffe-Phillips  
Mackenzie Valley Environmental Impact Review Board  
200 Scotia Center  
Box 938, 5102 - 50th Avenue  
Yellowknife NT X1A 2N7

Sent via Email

Dear Mr. Cliffe-Phillips,

**Re: Notice of Preliminary Screening Determination – Application for Land Use Permit  
Mineral Exploration – Lac de Gras Property, NT**

The Mackenzie Valley Land and Water Board (Board) met on February 13, 2020 and considered the Application from Dominion Diamond Mines ULC (Dominion) for Type A Land Use Permit (Permit) MV2019C0031 for mineral exploration on the Lac de Gras Property NT (Project) in accordance with the *Mackenzie Valley Resource Management Act* (MVRMA).

The Board conducted a preliminary screening based on the Application and the public record for the proceeding. Based on the evidence provided, the Board is satisfied the screening has been completed according to section 125 of the MVRMA and has decided **not to refer** the project to environmental assessment. The Preliminary Screening Report includes the Board's reasons for decision, as required by section 121 of the MVRMA (attached).

If the Board does not receive notice of referral to environmental assessment, it will proceed with the issuance of Permit MV2019C0031 on Tuesday February 25, 2020

Our Board and staff look forward to continued communications throughout the pause period. If you have any questions or concerns regarding this letter, please contact Shelagh Montgomery at (867) 766-7457 or email [smontgomery@mvlwb.com](mailto:smontgomery@mvlwb.com).

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Mavis Cli-Michaud".

Mavis Cli-Michaud  
Chair, MVLWB

Copied to: Akaitcho/Wek'eezhii East – Distribution List;  
Ms. Claudine Lee – Dominion Diamond Mines ULC

Attached: Preliminary Screening Report, including Reasons for Decision

**Preliminary Screening Report Form**

<b>Preliminary screener:</b> MVLWB <b>Reference / File number:</b> MV2019C0031 <b>TITLE:</b> Mineral Exploration, Lac de Gras, NT <b>ORGANIZATION:</b> Dominion Diamond Mines ULC <b>MEETING DATE:</b> February 13, 2020	<b>EIRB Reference number:</b>
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**Type of Development:**  
(CHECK ALL THAT APPLY)

- |                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | New  |
| <input type="checkbox"/>            | Amend, EIRB Ref. #                                 |
| <input checked="" type="checkbox"/> | Requires permit, licence, or authorization         |
| <input type="checkbox"/>            | Does not require permit, licence, or authorization |

**Project Summary**

The proposed operation consists of the following:

- Large diameter drilling and/or Trenching to achieve up to 1,200 tonnes annually of bulk sample material
- Use and storage of explosives
- Winter roads for access to and within the property;
- Mineral exploration including geochemical and geoscience surveys;
- Diamond drilling and reverse-circulation drilling programs;
- Fuel storage;
- Equipment storage;
- Use of vehicles;
- Water usage of less than 100m3/day;
- Waste management;
- Operation of a camp; and
- Reclamation activities.

This operation has not been previously permitted.

All activities will take place within 64° 01' 36" N and 110° 54' 47" W by 64° 28' 31" N and 110° 47' 31" W; this includes all claims and camp locations.

The objective of this work is to determine the source of Kimberlite Indicator Mineral anomalies. Prospecting, geochemical, and geoscience surveys will be conducted. Investigative drill testing of glacial stratigraphy will be conducted using a waterless reverse circulation drilling rig. A portable diamond drilling rig may be used to conduct follow-up testing at select targets. The diamond drilling program will consist of approximately 25 holes per year (for a maximum potential of 7 years is 175 drill holes) to an average depth of 250m. The reverse circulation program will consist of approximately 400 holes throughout the life of the project, to depths of between 50 and 100m.

Fuel

Fuel	Number of Containers	Capacity of Containers	Location
Diesel		250,000L (total of containers)	Base Camp/Drill Site
Gasoline		20,000L (total of containers)	Base Camp
Aviation fuel	500	205	Base Camp
Propane	500	45kg	Base Camp

Equipment

Type & Number	Size	Purposed Use
2 x Hornet dry RC drill rig or equivalent	4,350 kg	Drill testing glacial stratigraphy
3 x Boyles 25A/37 diamond drill rig or equivalent	8,600 kg	Drill testing potential kimberlite targets
2 Large Diameter RC Drilling Rig	40,000 kg	Drill testing identified kimberlite targets
4 Snowcat or similar	6,000 kg	Ice strip clearing, snow road development
2 A-Star 350 BA helicopter or equivalent	1, 300 kg	Drill and crew moves
15 x Bombardier skidoos or equivalent	250 kg each	Camp support
2 x Honda 350 ATV or equivalent	250 kg each	Camp support
2 10 kW diesel generator or equivalent	350 kg	Electric power supply
4 powered ice auger or equivalent	20 kg	Ice hold drilling for water supply
5 x Honda water pumps or equivalent	25 kg each	Camp and diamond drill water
2 Snow-making machinery	600 kg	Ice road construction and maintenance
1 Portable compressed air rock drill with gasoline generator or equivalent	900 kg	Used to drill holes to set explosives for blasting rock for bulk sample trench
2 Hagglands BV206 or similar	4,500 kg	Transportation of crew and equipment over snow

3 Skidded or tracked sloop	5,000 kg	Hauled behind snowcat or similar for transportation of equipment and supplies over snow
1 Foremost Chieftain or similar	38 tonnes	This is a tracked articulated machine that would be used for moving supplies and people
3 Water trucks	11,250 kg	Ice road construction and maintenance
2 Grader	21,700 kg	Ice road construction and maintenance
2 Dozer	8,500 kg	Ice road construction and maintenance
2 skid-steer	4,500 kg	Materials handling and snow clearing
15 transport tractor-trailer combinations	16,000 kg	Transportation of freight to and from the property along ice roads
1 Excavator	8,400 kg	To move material from trench bulk sample
2 -Solids removal equipment with built in generator	3,000 kg	Self-contained cuttings removal equipment
2 15kW diesel generator	450 kg	Electric power supply
5 5kW gas generator	100 kg	Electrical power supply backup
7 Water pumps	25 kg	Camp and diamond drill water
3 Loaders	15,000 kg	Ice road construction and maintenance and materials handling
10 Pickup Trucks	4,000 kg	Movement of crew and equipment on proposed ice roads on the property
2 Plow truck	17,000 kg	Ice road construction and maintenance
2 Incinerator duel-chamber	1,000 kg	Disposable of combustible waste
2 Bell 407 Helicopter or similar	1,300 kg	Equipment & crew movements
2-33 kW Diesel Generator	800 kg	Electrical power supply

Waste management plans include:

- Use of a duel chamber, diesel incinerator;
- Incineration of paper, cardboard, and untreated wood;
- Daily incineration of food and food waste;
- Backhauling recyclables, hazardous wastes, machinery wastes, tires, incinerator ash, and non-burnable materials to Yellowknife for proper disposal; and,
- Use of Pacto-type toilets- waste can be incinerated on-site.

Operation of a Camp plans include:

- The maximum number of people on site will be 15;
- Water is to be sourced from a lake adjacent to the camp;
- Construction of a sump to collect greywater from the kitchen, showers, and clothes washer.

Access to the site is by air or winter road with operations occurring between March and October.

Reclamation plans include:

- Removal of equipment, camp infrastructure and fuel caches;
- Backfilling of hand-dug holes;
- Cleanup of spills, if required; and,
- Final and complete inspection of base camp by supervisor.

### Scope

- Mineral exploration, including geophysical geochemical sampling, geophysics, diamond drilling and reverse circulation drilling;
- Large diameter drilling and/or trenching;
- Use and storage of explosives;
- Use of equipment, vehicles and machines;
- Construction, operation and maintenance of winter roads;
- Use and storage of fuel;
- Construction, operation and maintenance of temporary camps; and
- Associated closure and reclamation of the above activities.

Land Use Eligibility - Section 18 Mackenzie Valley Land Use Regulations

- a)ii)

### Type of Disposition

Disposition Number(s)

- Mineral Claims                      K01381, K01382, K01383, K02804, K02805, K02806, K02807, K02808, K02809, K02810, K02811, K02812, K06550, K06551, K06552, K06553, K06554, K06555, K06556, K06557, K06558, K06559, K06560, K06561, K06562, K06563, K06564, K06566, K06567, K06568, K06569, K06570, K06571, K06572, K06573, K06574

K06575,K06576,K06577,K06578,K06579,K06580,K06581,K06582,K06583  
 K06584,K06585,K06586,K06587,K06588,K06589,K06590,K06591,K06592  
 K06593,K06594,K06595,K06596,K06597,K06598,K06599,K06600,K06601  
 K06602,K06603,K06604,K06605,K06606,K06607,K06608,K06609,K06610  
 K06611,K06612,K06613,K06614,K06615,K06616,K06617,K06618,K06619  
 K06620,K06621,K06622,K06623,K06624,K06625,K06626,K06627,K06628  
 K06629,K07308,K07309,K14323,K14324,K14325,K14326,K14327,K14331  
 K14332,K14333,K14334,K14335,K14336,K14337,K14338,K14339,K14340  
 K14341,K14342,K14343,K14344,K14345,K14346,K14347,K14348,K14349  
 K14350,K14351,K14352,K14353,K14354,K14355,K14356,K14357,K14358  
 K14359,K14360,K16026,K16027,K16028,K16029,K16030,K16031,K16032  
 K16831,K16832,K16833,K16834,K16835,K16836,K16837,K16838,K16839  
 K16840,K16841,K16842,K16843,K16844,K16845,K16846,K16847,K16848  
 K16849,K16850,K16851,K16852,K16853,MACL1,MACL2,MACL2,MACL3,  
 MACL4

- Prospecting Permit (s)
- Mineral Leases
- Oil and Gas: EL/SDL/PL
- Quarry Permit
- Timber Permit
- Other:

**Principal Activities (related to scoping)**  
 (CHECK ALL THAT APPLY)

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Construction           | <input checked="" type="checkbox"/> Exploration       | <input type="checkbox"/> Decommissioning        |
| <input type="checkbox"/> Installation           | <input type="checkbox"/> Industrial                   | <input checked="" type="checkbox"/> Abandonment |
| <input checked="" type="checkbox"/> Maintenance | <input type="checkbox"/> Recreation                   | <input checked="" type="checkbox"/> Aerial      |
| <input type="checkbox"/> Expansion              | <input type="checkbox"/> Municipal                    | <input type="checkbox"/> Harvesting             |
| <input checked="" type="checkbox"/> Operation   | <input type="checkbox"/> Quarry                       | <input checked="" type="checkbox"/> Camp        |
| <input type="checkbox"/> Repair                 | <input checked="" type="checkbox"/> Linear / Corridor | <input type="checkbox"/> Scientific             |
| <input type="checkbox"/> Research               | <input checked="" type="checkbox"/> Sewage            | <input checked="" type="checkbox"/> Solid Waste |
| <input type="checkbox"/> Water Intake           |   |   |
| <input type="checkbox"/> Other:                 |   |   |

**Principal Development Components (related to scoping)**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Access Road <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> construction</li> <li><input type="checkbox"/> abandonment/removal</li> <li><input type="checkbox"/> modification e.g., widening, straightening</li> </ul> | <input checked="" type="checkbox"/> Waste Management <ul style="list-style-type: none"> <li><input type="checkbox"/> disposal of hazardous waste</li> <li><input checked="" type="checkbox"/> waste generation</li> <li><input checked="" type="checkbox"/> sewage</li> <li><input checked="" type="checkbox"/> disposal of sewage</li> </ul> |
| <input checked="" type="checkbox"/> Automobile, Aircraft or Vessel Movement   | <input checked="" type="checkbox"/> Geoscientific Sampling  |
| <input type="checkbox"/> Blasting   | <input type="checkbox"/> Trenching  |
| <input type="checkbox"/> Building   | <input checked="" type="checkbox"/> Diamond drill   |
| <input checked="" type="checkbox"/> Burning   | <input checked="" type="checkbox"/> Borehole core sampling  |
| <input type="checkbox"/> Burying  | <input type="checkbox"/> Bulk soil sampling   |
| <input checked="" type="checkbox"/> Channelling   | <input type="checkbox"/> gravel   |
| <input checked="" type="checkbox"/> Cut and Fill  | <input type="checkbox"/> hydrological Testing   |
| <input type="checkbox"/> Cutting of Trees or Removal of Vegetation  | <input checked="" type="checkbox"/> Site Restoration  |
| <input type="checkbox"/> Dams and Impoundments <ul style="list-style-type: none"> <li><input type="checkbox"/> construction</li> <li><input type="checkbox"/> abandonment/removal</li> <li><input type="checkbox"/> modification</li> </ul>   | <input checked="" type="checkbox"/> fertilization   |
| <input type="checkbox"/> Ditch Construction   | <input type="checkbox"/> grubbing   |
| <input checked="" type="checkbox"/> Drainage Alteration   | <input checked="" type="checkbox"/> planting/seeding  |
| <input type="checkbox"/> Drilling other than Geoscientific  | <input type="checkbox"/> reforestation  |
| <input type="checkbox"/> Ecological Surveys   | <input type="checkbox"/> scarify  |
| <input checked="" type="checkbox"/> Excavation  | <input type="checkbox"/> spraying   |
| <input type="checkbox"/> Explosive Storage  | <input checked="" type="checkbox"/> re-contouring   |
| <input checked="" type="checkbox"/> Fuel Storage  | <input type="checkbox"/> Slashing and removal of vegetation   |
| <input type="checkbox"/> Topsoil, Overburden or Soil <ul style="list-style-type: none"> <li><input type="checkbox"/> fill</li> <li><input type="checkbox"/> disposal</li> <li><input type="checkbox"/> removal</li> <li><input type="checkbox"/> storage</li> </ul>                   | <input type="checkbox"/> Soil Testing   |
|   | <input checked="" type="checkbox"/> Stream Crossing/Bridging  |
|   | <input type="checkbox"/> Tunnelling/Underground   |
|   | <input type="checkbox"/> Other:   |

NTS topographic map sheet numbers:  
 76D/75M

Latitude / longitude and UTM system:

MV2019C0031 – Dominion Diamond Mines ULC

64°29'25.00"N  
 110°56'5.00"W  
 63°59'40.000"N  
 109°55'6.500"W

**Nearest community and water body:**

- Nearest community: Wekweti, NT
- Nearest Water Bodies: Lac de Gras, Mackay Lake, and Courageous Lake, NT

**Land Status (consultation information)**

- Free Hold/Private       Commissioners Land       Federal Crown Land       Municipal Land

**Transboundary/Transregional Implications**

- British Columbia       Alberta       Saskatchewan       Yukon  
 Nunavut       Wood Buffalo National Park       Inuvialuit Settlement Region  
 Wek'èezhìì       Gwich'in       Sahtu

**Type of transboundary implication:**       Impact / Effect       Development

Public concern:

**Physical - Chemical Effects**

<b>Impact</b>	<b>Mitigation</b>	<b>Location of condition</b>
<b>1) Ground Water</b>		
<input type="checkbox"/> water table alteration		
<input checked="" type="checkbox"/> water quality changes	<p>There is the potential for fuel and chemicals stored at site to contaminate groundwater. The risk of spills is reduced by using proper handling, storage, and disposal techniques. The impacts of spills can be reduced by having an appropriate, up-to-date Spill Contingency Plan and spill equipment in place and by training personnel in spill response. The Spill Contingency Plan and waste management practices are adequately described in the Application and are required under draft LUP conditions.</p> <p>Sealing drill holes that encounter artesian aquifers should mitigate impacts to aquifer water quality. This concern can be mitigated by a draft LUP condition.</p> <p>Fuel locations will be inspected regularly            Personnel will be trained in proper spill procedures            Sealing of drill holes that encounter artesian aquifers            Proper waste management practise            Secondary containment for fuel caches(s)            Proper labelling and positioning of fuel drums</p>	<p>26(1)(f),            26(1)(g),            26(1)(m)</p>
<input type="checkbox"/> infiltration changes		
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		

<b>Impact</b>	<b>Mitigation</b>	<b>Location of condition</b>
<b>2) Surface Water</b>		
<input type="checkbox"/> flow or level changes		
<input checked="" type="checkbox"/> water quality changes	<p>There is the potential for fuel, chemicals, and drilling wastes to contaminate surface water. The risk of spills is reduced by using proper handling, storage, and disposal techniques. The impacts of spills can be reduced by having an appropriate, up-to-date Spill Contingency Plan and spill equipment in place and by training personnel in spill response. The Spill Contingency Plan and waste management practices are adequately described in the Application and are required under draft LUP conditions.</p> <p>Both depositing drill cuttings in a natural depression and locating sumps at least 100 meters from the high water mark of any water course will limit potential for contamination. These concerns can be mitigated by draft LUP conditions.</p> <p>A condition has been included in the draft LUP regarding not erecting camps or storing large amount of materials on the ice of watercourses; this</p>	<p>26(1)(d), 26(1)(e),            26(1)(m), 26(1)(g),            26(1)(f)</p>

should reduce the potential for water contamination.

<input checked="" type="checkbox"/> water quantity changes	Depositing drill cuttings in a natural depression and locating sumps at least 100 meters from the high water mark of any water course will limit potential for contamination.	
<input checked="" type="checkbox"/> drainage pattern changes	The use of the Pisten Bully to pull the drill between drill holes may require passing over water courses. As the Pisten Bully will only be used during frozen ground conditions and where there is adequate snow cover, snow fills should be created if there is inadequate protection of the water course and/or its banks. Snow fills should be removed prior to spring freshet so as not to potentially alter surface drainage patterns. Alternatives to snowfills include locating another route around the water course or using the helicopter to move the drill rig (this latter option will be used between drill targets when the ground is not frozen and rutting/gouging is a risk). This concern can be mitigated through draft LUP conditions.	26(1)(f)
<input type="checkbox"/> temperature		
<input type="checkbox"/> wetland changes/loss		
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		

**Impact  
3) Noise**

**Mitigation**

**Location of  
condition**

<input checked="" type="checkbox"/> noise in/near water	No mitigation as proposed for the noise generated from the camp facilities, by the drilling operation or helicopter use, but the project will be discontinuous, short term, and limited to small individual areas.	n/a
<input checked="" type="checkbox"/> noise increase	No mitigation is proposed for the noise generated from the camp facilities, by the drilling operations or helicopter use, but the project will be discontinuous, short term, and limited to small individual areas.	n/a
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		

**Impact  
4) Land**

**Mitigation**

**Location of  
condition**

<input type="checkbox"/> geologic structure changes		
<input checked="" type="checkbox"/> soil contamination	<p>There is the potential for fuel and chemicals stored at site to contaminate the land. The risk of spills is reduced by using proper handling, storage, and disposal techniques. The impacts of spills can be reduced by having an appropriate, up-to-date Spill Contingency Plan and spill equipment in place and by training personnel in spill response. The Spill Contingency Plan and waste management practices are adequately described in the Application and are required under draft LUP conditions. Drip pans should also be used under any equipment that is stored (i.e. for days, or in between seasons).</p> <p>Disturbed sites will be re-vegetated and the disturbed land be returned as close to original condition as possible</p> <p>Will ensure the ground is capable to support vehicle movements so that the land is not disturbed.</p>	26(1)(m), 26(1)(g), 26(1)(i)
<input type="checkbox"/> buffer zone loss		
<input checked="" type="checkbox"/> soil compaction and settling	Foot and vehicle traffic and drilling during the summer has the potential to compact soils. Any clearing of will likely be limited to summer drill sites. The Application described that disturbed sites may be re-vegetated and the disturbed land be returned as close to original condition as possible.	26(1)(o)
<input checked="" type="checkbox"/> destabilization/erosion	The Applicant should ensure the ground is capable to support vehicle movements so that the land is not disturbed. Conditions regarding rutting and gouging have been included in the draft LUP to mitigate this risk.	26(1)(f), 26(1)(g)

Backfilling and restoring sumps following their use will limit potential for localized erosion; there is a condition to mitigate this concern in the draft LUP.

permafrost regime alteration

There should be adequate insulation of the ground surface beneath all camp structures to prevent vegetation from being removed, the melting of the permafrost, and the ground settling/eroding. This is a condition in the draft LUP to reduce this risk.

26(1)(f)

Fuel locations will be inspected regularly  
 Personnel will be trained in proper spill procedures  
 Sealing of drill holes that encounter artesian aquifers  
 Proper waste management practise  
 Secondary containment for fuel caches(s)  
 Proper labelling and positioning of fuel drums

explosives/scarring

other:

N/A

**Impact**  
**5) Non-renewable natural resources**

**Mitigation**

**Location of condition**

resource depletion

other:

N/A

**Impact**  
**6) Air/climate/atmosphere**

**Mitigation**

**Location of condition**

other: green house gasses

According to the Application, the Applicant will use a forced-air, fuel-fired incinerator to burn all combustible garbage except plastics. The exhaust from the incinerator and from equipment used will add to atmospheric loadings of pollutants. No mitigation is proposed for this. There is a waste management plan in the application; it contains provisions indicating that the Applicant plans to remove non-incineratable wastes off-site to an approved disposal facility. Conditions in the draft LUP have been proposed to reduce this impact.

26(1)(i)

N/A

**BIOLOGICAL ENVIRONMENT**

**Impact**  
**1) Vegetation**

**Mitigation**

**Location of condition**

species composition

species introduction

toxin/heavy accumulation

other:

During the winter portion of the land use the Applicant should ensure there is adequate snow pack to support vehicle movements so that vegetation is not disturbed. Conditions regarding rutting and gouging have been included in the draft land use permit to mitigate this risk. A condition regarding locating the camp on durable land or another previously cleared area has also been included in the draft LUP to limit the amount of vegetation disturbed. For individual drill sites, no mitigation has been included because the disturbances are recognized to be limited to the local footprint of the drill.

26(1)(a), 26(1)(f)

N/A

**Impact**  
**2) Wildlife and Fish**

**Mitigation**

**Location of condition**

<input checked="" type="checkbox"/> effects on rare, threatened or endangered species	<p>If any species at risk are encountered, the Applicant has indicated they will reduce activity in accordance with their Wildlife, Archaeological, and Environmental Awareness Plan provided in the Application, to minimize impacts to these species.</p> <p>The scope of the draft LUP reminds the Applicant of the requirement to abide by all applicable legislation (including regulations made under such legislation.) The following condition has been included in the draft LUP: The Permittee is to take all reasonable measures to prevent damage to wildlife and fish habitat.</p>	<p>26(1)(h)</p>
<input checked="" type="checkbox"/> fish population changes	<p>In accordance with the MVLUR section 26, it is within the MVLWB's authority to include conditions for the protection of fish habitat within land use permits. The draft LUP includes conditions to minimize habitat damage, manage drill waste, minimize erosion, prevent obstruction of natural drainage, prevent and respond to spills, etc.</p>	
<input type="checkbox"/> waterfowl population changes		
<input checked="" type="checkbox"/> breeding disturbance	<p>The Applicant is to take all reasonable measures to prevent damage to wildlife and fish habitat.</p>	
<input type="checkbox"/> population reduction		
<input type="checkbox"/> species diversity change		
<input type="checkbox"/> health changes		
<input checked="" type="checkbox"/> behavioural changes	<p>The Applicant shall not commence any drilling or movement of equipment within 500 meters of one or more caribou.</p> <p>Wildlife may be attracted to the food, garbage, and other materials at the camp. Food handling and garbage disposal methods will be used that do not attract wildlife.</p> <p>Wildlife may avoid the camp and drill sites due to noise. There is no mitigation but this may be beneficial as the habituation of animals should be avoided.</p>	<p>26(1)(q), 26(1)(i)</p>
<input type="checkbox"/> habitat changes / effects		
<input checked="" type="checkbox"/> game species effects	<p>The Applicant has included a Wildlife, Archaeological, and Environmental Awareness Plan with the Application. To mitigate impacts of this operation on wildlife, a condition has been placed in the draft LUP which states: The Applicant shall not commence any drilling or movement of equipment within 500 meters of one or more caribou.</p>	<p>26(1)(q)</p>
<input type="checkbox"/> toxins/ heavy metals		
<input type="checkbox"/> forestry changes		
<input type="checkbox"/> agricultural changes		
<input checked="" type="checkbox"/> other:	<p>To mitigate overall impacts of this operation on fish, a condition has been placed in the draft LUP which states: The Permittee shall construct and maintain the water intake(s) using DFO's Freshwater Intake End-of-Pipe Fish Screen Guidelines. .</p>	<p>26(1)(q)</p>
<input type="checkbox"/> N/A		

**Interacting Environment**

**Impact**  
**1) Habitat and Communities**

**Mitigation**

**Location of condition**

<input checked="" type="checkbox"/> predator-prey	<p>Predators may be attracted to wastes produced at the camp or drill sites, which may increase pressure on prey species. This effect can be reduced by proper storage and handling of garbage, including daily burning, as described in the Applicant's Waste Management Plan.</p>	
<input checked="" type="checkbox"/> wildlife habitat/ecosystem composition changes	<p>The Applicant is to take all reasonable measures to prevent damage to wildlife and fish habitat.</p>	
<input type="checkbox"/> reduction/removal of keystone or endangered		



species

- removal of wildlife corridor or buffer zone
- other:
- N/A

**Impact**  
**2) Social and Economic**

**Mitigation**

**Location of condition**

- planning/zoning changes or conflicts
- increase in urban facilities or services use
- rental house
- airport operations/capacity changes
- human health hazard
- impair the recreational use of water or aesthetic quality
- affect water use for other purposes
- affect other land use operations

quality of life changes

Cabins used for traditional activities, including trapping, hunting or fishing or other privately owned or leased structures should be avoided by the Applicant. The draft LUP contains a condition regarding this avoidance, and gives a 300m buffer zone.

26(1)(a)

public concern

The Prince of Wales Northern Heritage Centre recommended that the Applicant must conduct an Archaeological Impact Assessment prior to disturbing or drilling at any site. This was recommended because the project area is suspected to contain a high density of unrecorded archaeological sites; impact assessments should minimize the risk of project impacts on archaeological sites. The Applicant also committed to engaging the services of a qualified archaeologist to conduct an Archaeological Overview for the project area to identify the potential for archaeological sites, and to hiring a Heritage, Wildlife & Environmental monitor to contribute Traditional Knowledge to the program. The draft LUP contains a condition regarding these assessments.

26(1)(j), 26(1)(l), 26(1)(o), 26(1)(q)

Conditions regarding the liability for the cleanup, remediation, and restoration of the activities associated with this project have been included in the draft LUP; the Applicant is responsible for all of these costs.

other:

N/A

**Impact**

**Mitigation**

**Location of condition**

**3) Cultural and Heritage**

- effects to historic property
- increased economic pressure on historic properties

change to or loss of historic resources

There is the potential to impact burial sites or other sites with archaeological and/or historical value. Conditions regarding avoidance of such sites have been added to the draft LUP to mitigate this risk.

26(1)(j)

The Prince of Wales Northern Heritage Centre recommended that the

Applicant must conduct an Archaeological Impact Assessment prior to disturbing or drilling at any site. This was recommended because the project area is suspected to contain a high density of unrecorded archaeological sites; impact assessments should minimize the risk of project impacts on archaeological sites. The Applicant also committed to engaging the services of a qualified archaeologist to conduct an Archaeological Overview for the project area to identify the potential for archaeological sites, and to hiring a Heritage, Wildlife & Environmental monitor to contribute Traditional Knowledge to the program. The draft LUP contains a condition regarding these assessments.

change to or loss of archaeological resources

There is the potential to impact burial sites or other sites with archaeological and/or historical value. Conditions regarding avoidance of such sites have been added to the draft LUP to mitigate this risk.

26(1)(j)

The Prince of Wales Northern Heritage Centre recommended that the Applicant must conduct an Archaeological Impact Assessment prior to disturbing or drilling at any site. This was recommended because the project area is suspected to contain a high density of unrecorded archaeological sites; impact assessments should minimize the risk of project impacts on archaeological sites. The Applicant also committed to engaging the services of a qualified archaeologist to conduct an Archaeological Overview for the project area to identify the potential for archaeological sites, and to hiring a Heritage, Wildlife & Environmental monitor to contribute Traditional Knowledge to the program. The draft LUP contains a condition regarding these assessments.

increased pressure on archaeological sites

change to or loss of aesthetically important sites

effects to aboriginal lifestyle

Cabins used for traditional activities, including trapping, hunting or fishing should be avoided by the Applicant. The draft LUP contains a condition regarding avoidance of cabins, and gives a 300m buffer zone. Furthermore, to mitigate impacts of this operation on wildlife, a condition has been placed in the draft LUP which states: The Applicant shall not commence any drilling or movement of equipment within 500 meters of one or more caribou.

26(1)(a), 26(1)(q)

other:

N/A

## Preliminary Screener / Referring Body Information

Akaiicho IMA Implementation Office  
Athabasca Denesuline Council CO Prince Albert Cou  
Bathurst Inlet Development Ltd.  
Bathurst Inlet Lodge  
BNT Gold Resources Ltd.  
Canadian Northern Economic Development Agency  
CanNor NWT Region  
Chamber of Mines NWT & Nunavut  
City of Yellowknife  
Community Government of Behchoko  
Community Government of Gameti  
Community Government of Wekweeti  
Community Government of Whati  
Dene Nation  
Deninu K'ue First Nation  
Environment and Climate Change Canada  
Fisheries and Oceans Canada  
Fort Resolution Metis Council  
Fort Smith Metis Council  
GLWB  
GNWT - ECE  
GNWT - ENR  
GNWT - Health  
GNWT - INF  
GNWT - ITI  
GNWT - Lands  
GNWT - MACA  
GNWT- OROGO  
Golder Associates  
Gov of Canada  
Hamlet of Fort Resolution  
Hay River Metis Council  
INAC - Contaminants and Remediation Directorate  
INAC - NWT Inspectors  
Katlodeeche First Nation  
Kitikmeot Inuit Association  
Kivalliq Inuit Association  
Lutsel K'e Dene First Nation - Chief or Wildlife, Lands and Environment  
Mackenzie Valley Environmental Impact Review Board  
Manitoba Denesuline  
MVLWB  
National Energy Board  
North Slave Metis Alliance  
Northwest Territory Metis Nation  
Salt River First Nations  
Smith Landing First Nation  
Snap Lake Environmental Monitoring Agency - SLEMA  
Tłıchq Government  
Tłıchq Lands Protection Department  
Town of Fort Smith  
Town of Hay River  
Wek' eezhii Renewable Resources Board  
Wekweeti Community Government  
West Point First Nation  
Wek' eezhii Land and Water Board  
Workers' Safety and Compensation Commission  
Yellowknives Dene First Nation

**Reasons For Decision**

(List all reasons and supporting rationales for preliminary screening decision)

**DECISION**

The Mackenzie Valley Land and Water Board (the Board) is satisfied that the preliminary screening of Application MV2019C0031, Dominion Diamond Mines ULC., Mineral Exploration, Lac de Gras Project, NT has been completed in accordance with section 125 of the *Mackenzie Valley Resource Management Act* (MVRMA).

The Board is satisfied that communities and First Nations affected by the Application have been notified and provided adequate time to provide comment on the Application as required by land claim and self-government agreements, the MVRMA, policy directions relating to Interim Measures Agreements, and any other applicable legislation and agreements.

Having reviewed all relevant evidence on the Public Registry, including the submissions of the Applicant, the written comments received by the Board and any Staff Reports prepared for the Board, the Board has decided that in its opinion:

- The proposed development will not have a significant adverse impact on the environment; and
- The proposed development is not a cause of public concern.

The Board is also of the opinion that the Application can proceed through the regulatory process and that any impacts of the development on the environment can be mitigated through the imposition of the terms and conditions in the attached Land Use Permit.

As a result, the Board, having due regard to the facts and circumstances, the merits of the submissions made to it, and to the purpose, scope, and intent of the MVRMA and the Mackenzie Valley Land Use Regulations, has decided that this Land Use Permit be issued subject to the terms and conditions contained therein.

Preliminary Screening Decision	
<input checked="" type="checkbox"/>	<b>Outside Local Government Boundaries</b>
<input type="checkbox"/>	The development proposal might have a significant adverse impact on the environment, <i>refer it to the EIRB.</i>
<input checked="" type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input checked="" type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	<b>Wholly Within Local Government Boundaries</b>
<input type="checkbox"/>	The development proposal is likely to have a significant adverse impact on air, water or renewable resources, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>

**Preliminary Screening Organization**

Mackenzie Valley Land and Water Board

February 13, 2020

**Signatures**

Mavis Cli-Michaud, Chair