

# PRELIMINARY SCREENING REPORT FORM

<p style="text-align: center;"><b>PRELIMINARY SCREENER REFERENCE / FILE</b></p> <p>NUMBER: <u>N7L2-1736</u></p> <p style="text-align: center;">Proposed Development of Sable, Pigeon, and</p> <p>TITLE: <u>Beartooth Kimberlite Pipes</u></p> <p>ORGANIZATION: <u>BHP Diamonds Inc.</u></p>	<p style="text-align: center;"><b>EIRB REFERENCE</b></p> <p>NUMBER: _____</p>
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Type of Development: (CHECK ALL THAT APPLY)

<input checked="" type="checkbox"/> New Development
<input type="checkbox"/> Amend, EIRB Ref. # _____
<input type="checkbox"/> Renew, EIRB Ref. # _____
<input checked="" type="checkbox"/> Requires permit, license or authorization
<input type="checkbox"/> Does not require permit, license or authorization



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

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

**Principal Development Components (related to scoping)**  
(CHECK ALL THAT APPLY)

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li><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> </li> <li><input checked="" type="checkbox"/> Automobile, Aircraft or Vessel Movement</li> <li><input checked="" type="checkbox"/> Blasting</li> <li><input type="checkbox"/> Building</li> <li><input type="checkbox"/> Burning</li> <li><input type="checkbox"/> Burying</li> <li><input type="checkbox"/> Channeling</li> <li><input type="checkbox"/> Cut and Fill</li> <li><input checked="" type="checkbox"/> Cutting of Trees or Removal of Vegetation</li> <li><input checked="" type="checkbox"/> Dams and Impoundments <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</li> </ul> </li> <li><input type="checkbox"/> Ditch Construction</li> <li><input checked="" type="checkbox"/> Drainage Alteration</li> <li><input checked="" type="checkbox"/> Drilling other than Geoscientific</li> <li><input type="checkbox"/> Ecological Surveys</li> <li><input type="checkbox"/> Excavation</li> <li><input checked="" type="checkbox"/> Explosive Storage</li> <li><input checked="" type="checkbox"/> Fuel Storage</li> <li><input checked="" 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 checked="" type="checkbox"/> removal</li> <li><input type="checkbox"/> storage</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Waste Management <ul style="list-style-type: none"> <li><input type="checkbox"/> disposal of hazardous waste</li> </ul> </li> <li><input checked="" type="checkbox"/> waste generation</li> <li><input type="checkbox"/> Sewage <ul style="list-style-type: none"> <li><input type="checkbox"/> disposal of sewage</li> </ul> </li> <li><input type="checkbox"/> Geoscientific Sampling <ul style="list-style-type: none"> <li><input type="checkbox"/> trenching</li> <li><input type="checkbox"/> diamond drill</li> <li><input type="checkbox"/> borehole core sampling</li> </ul> </li> <li><input type="checkbox"/> bulk soil sampling</li> <li><input checked="" type="checkbox"/> Gravel</li> <li><input type="checkbox"/> Hydrological Testing</li> <li><input type="checkbox"/> Site Restoration <ul style="list-style-type: none"> <li><input type="checkbox"/> fertilization</li> <li><input type="checkbox"/> grubbing</li> <li><input type="checkbox"/> planting/seeding</li> <li><input type="checkbox"/> reforestation</li> <li><input type="checkbox"/> scarify</li> <li><input type="checkbox"/> spraying</li> <li><input type="checkbox"/> recontouring</li> </ul> </li> <li><input checked="" type="checkbox"/> Slashing and removal of vegetation</li> <li><input type="checkbox"/> Soil Testing</li> <li><input checked="" type="checkbox"/> Stream Crossing/Bridging</li> <li><input type="checkbox"/> Tunneling/Underground</li> <li><input checked="" type="checkbox"/> Other (describe): <u>dewatering lakes</u></li> </ul> |
|---|--|

- ☒ water quality changes
- ☒ water quantity changes
- ☒ drainage pattern changes
- ☐ temperature
- ☒ wetland changes / loss
- ☐ other: \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Water diversion via a floating pipe in order to minimize erosion and maintain water quality; dewater discharge sampled and analyzed regularly (monitoring plan not provided) and if the water quality requirements of Water License N7L2-1616 are not met, then discharge water will be directed to the Long Lake Containment Area via the processing plant (details not provided) with flocculent/coagulant addition as required. The anticipated impacts of dewatering Beartooth on Panda Lake and the Diversion Channel i.e. increased flows, increased nutrients, alterations in hydrograph are not provided. The capacity of the Panda sumps and disposal areas need to be provided to determine whether it can accommodate the increase from the runoff collection system. If pumping is proposed to be a long-term management activity, its feasibility and associated contingencies need to be provided. It is stated that no significant water diversion around Sable Lake would be required, but no information has been provided on the water diversion that will be required. There is a discrepancy in the text whereby it is first stated that there would be a sedimentation pond for collection and settling of pit sump water which would then be discharged to Two-rock Lake; the next statement, however, states that water within pit sump would be used for roads and drilling with excess going to Long Lake.

Completion of geochemical characterization to define magnitude of acid rock drainage(ARD) and poor quality runoff from waste diabase and schist; placement of waste dumps within Long Lake Containment area drainage catchment; placement of diabase and schist under water if determined to be acid-generating (no water quality details are given i.e. metals, TP and pH). It is proposed that part of Ulu Lake is to be used as a waste rock dump, but no mitigation is provided for the possibility that the rock is acid generating.

Wetland changes assumed for the stream connecting Beartooth and Bearclaw lakes. It is clear this wetland will not be used for water flow until the end of the mining operation at which time Beartooth Lake will be allowed to flood. No mitigative measure was specifically mentioned.

☐ N/A

### 3. Noise

- ☐ noise increase
- ☐ noise in/near water
- ☐ other: \_\_\_\_\_
- ☒ N/A

### 4. Land

- ☒ geologic structure changes
- ☐ soil contamination
- ☐ buffer zone loss
- ☐ soil compaction & settling
- ☐ destabilization / erosion
- ☐ permafrost regime alteration
- ☐ other: \_\_\_\_\_

Depositing of Beartooth waste rock, till and lake bottom sediments in Panda disposal areas will result in a minor increase in footprint, but there is no definition of minor, and whether any other waterways impacted by the increases.

- ☐ game species effects
- ☐ toxins / heavy metals
- ☐ forestry changes
- ☐ agricultural changes
- ☐ other: \_\_\_\_\_
- \_\_\_\_\_
- ☐ N/A

## INTERACTING ENVIRONMENT

### 1. Habitat and Communities

- ☐ predator-prey
- ☐ wildlife habitat / ecosystem composition changes
- ☐ reduction / removal of keystone or endangered species
- ☐ removal of wildlife corridor or buffer zone
- ☐ other: \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- ☒ N/A

### 2. Social and Economic

- ☐ 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

**PRELIMINARY SCREENER / REFERRING BODY INFORMATION**  
(CHECK ALL THAT APPLY)

	<b>RA or DRA</b>	<b>ADVICE</b>	<b>PERMIT REQUIRED</b>
<b>Federal</b>			
ATOMIC ENERGY CONTROL BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CANADIAN HERITAGE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CANADIAN TRANSPORTATION AGENCY	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ENVIRONMENT CANADA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FISHERIES & OCEANS	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
INDIAN AFFAIRS & NORTHERN DEVELOPMENT	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
INDUSTRY CANADA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NATIONAL DEFENSE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NATIONAL ENERGY BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NATURAL RESOURCES	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PUBLIC WORKS & GOVERNMENT SERVICES	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
TRANSPORT CANADA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Territorial</b>			
MUNICIPAL & COMMUNITY AFFAIRS		<input type="radio"/>	
PUBLIC WORKS & GOVERNMENT SERVICES		<input type="radio"/>	
RESOURCES, WILDLIFE & ECONOMIC DEVELOPMENT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
TRANSPORTATION	<input type="radio"/>		
HEALTH BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Boards</b>			
GWICH'IN LAND & WATER BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
SAHTU LAND & WATER BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MACKENZIE VALLEY LAND & WATER BOARD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
RENEWABLE RESOURCE BOARDS	<input type="radio"/>	<input type="radio"/>	
LOCAL HEALTH BOARD	<input type="radio"/>	<input type="radio"/>	
<b>Aboriginal / First Nation</b>			
_____		<input type="radio"/>	
_____		<input type="radio"/>	
_____		<input type="radio"/>	
_____		<input type="radio"/>	
ADJOINING LAND CLAIM		<input type="radio"/>	
<b>Local Government</b>			
_____		<input type="radio"/>	
(IDENTIFY)			
_____		<input type="radio"/>	
(IDENTIFY)			
_____		<input type="radio"/>	
(IDENTIFY)			
<b>Communities</b>			
_____		<input type="radio"/>	
(IDENTIFY)			
_____		<input type="radio"/>	
(IDENTIFY)			

✓	PRELIMINARY SCREENING DECISION
<input type="radio"/>	<b>Outside Local Government Boundaries</b>
<input checked="" type="radio"/>	The development proposal might have a significant adverse impact on the environment, <i>refer it to the EIRB.</i>
<input type="radio"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="radio"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input type="radio"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="radio"/>	<b>Wholly within Local Government Boundaries</b>
<input type="radio"/>	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="radio"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="radio"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input type="radio"/>	<i>Proceed with regulatory process and/or implementation.</i>

**Preliminary Screening Organization**

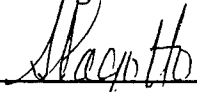
DIAND - Water Resources Division


DFO

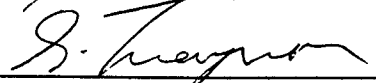
DIAND - Land Administration

DOE

**Signatures**

  
(Laura Hawke)

  
(Julie Dahl)

  
(Stephen Traynor)

  
(Stephen Harbicht)