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# EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

**Applicant: BHP Diamonds Inc. c/o BHP World Exploration Inc Licence No:** nWB2NAD010

(For NWB Use Only)

## ADMINISTRATIVE INFORMATION

1. Environment Manager: Brent Carr Tel: (250) 860-4616 Fax: (250) 860-7242_ E-mail:_carr.brent.ba@bhp.com_____

2. Project Manager: Scott Bilben Tel: (604) 632-1462 Fax: (604) 683-4125_E-mail: scott.bilben@bhpbilliton.com

3. Does the applicant hold the necessary property rights? **YES**

4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? **NO**
   If so, please provide letter of authorization.

5. Duration of the Project
   [ x ] Annual
   [ ] Multi Year:
   If Multi-Year indicate proposed schedule of on site activities
   Start: _____ Completion:_____

## CAMP CLASSIFICATION

6. Type of Camp
   [ ] Mobile (self-propelled)
   [ ] Temporary
   [ x ] Seasonally Occupied: summer – may be only temporary
   [ ] Permanent
   [ ] Other:_____

7. What are the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?

*May accommodate up to 25 with visitors and itinerant contractors. Most of the time the population will not exceed 20 people.*

8. Provide history of the site if it has been used in the past.

*Preferred site is adjacent the West Baffin DEW line airstrip but this requires DND approvals (currently being sought). Campsite B, on Nadluardjuk Lake is a second choice nut never previously used.*

## CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.

*The Nadluardjuk lake site is located on level gravel shoreline of considerable size. See airphoto. The airstrip site is shown in attached photo.*

10. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs.

*Camp selected using air photos with subsequent on-site inspection.*

11. Is the camp or any aspect of the project located on:

[ x] Crown Lands Permit Number (s) *N 2001C0020*/Expiry Date: *June 25, 2003*
[ ] Commissioners Lands Permit Number (s)/Expiry Date: _____
[ x ] Inuit Owned Lands Permit Number *Q01L1C02* /Expiry Date: *June 19, 2002*

12. Closest Communities (distance in km):

*Clyde River – 270 km away*

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

*DND, DIAND, QIA, NTI will be notified in the process of permit renewal. BHP Billiton hopes to access Inuit assistants from the Nunavut sponsored Mineral Exploration Field Assistants programme in which we participated last year.*

14. Will the project have impacts on traditional water use areas used by the nearby communities? Will the project have impacts on local fish and wildlife habitats?

No. Remoteness of the site, the lack of proximal Type 1 lands, the low impact / preliminary nature of the work, and the present ambiguity of its significance indicate that it will have negligible impacts in all of these respects.

## PURPOSE OF THE CAMP

15. x Mining

☑ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)

(Omit questions # 16 to 21)

☑ Other _____ (Omit questions # 16 to 22)

16. ☑ Preliminary site visit
x Prospecting
x Geological mapping
x Geophysical survey
x Diamond drilling
☑ Reverse circulation drilling
☑ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
☑ Other: _____

17. Type of deposit:
☑ Lead Zinc
☑ Diamond
☑ Gold
☑ Uranium
☑ Other: base metals

**DRILLING INFORMATION**

18. Drilling Activities
X Land Based drilling
☑ Drilling on ice

19. Describe what will be done with drill cuttings?

*Deposition in a natural depression adjacent the setup. Recirculation of fluids will be attempted to minimise need of additives.*

20. Describe what will be done with drill water?

*See above*

21. List the brand names and constituents of the drill additives to be used? Includes MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable.

*Sodium chloride and or calcium chloride – suppression of freezing level in permafrost.*
*WDS 120L - hole stabilisation*

22. Will any core testing be done on site? Describe.

No

## SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review.
*See Attachment*

24. How many spill kits will be on site and where will they be located?
*1 - spill kit in camp 2 - spill kits at the fuel cache*

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.
*All fuel in 205 litre drums (figures highly tentative)*
*Up to 100 – diesel*
*Up to 10 – reg gas*
*up to 150 – jet B*

## WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

*Nadluardjuk Lake or adjacent lakes*
*Small lakes closest to drill sites*

27. Estimated demand (in L/day * person):

- ☑ Domestic Use: 1000 litres Water Source: see above
- ☑ Drilling Units: 2000 – 3000 litres Water Source: see above
- ☑ Other: _____ Water Source: _____

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? Describe:

*Water pump will be a small WB 15 Honda centrifugal pump used to fill a water drum in the camp. Intake is standard 1½" suction. The footvalve is a course screen of about ¼ inch with aluminum mesh over top. Similar arrangements have never previously jeopardised fish.*
*Drills typically use low volume piston pumps; 1.5" suction and 1" suction.*

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?
*A quick-test total colliform (presence or absence) will be conducted twice during the operation.*

30. Will drinking water be treated? How?
*The need is not anticipated but if necessary, chlorine will be added.*

31. Will water be stored on site?

*2 – 205 litre drums will be used to store water in the camp and allow the use of a demand pump to pressurize the plumbing.*

## WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:

☑ Camp Sewage (blackwater) *latrine pit treated with chloride of lime or bacterial reducing agent.*

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☑ Camp Greywater *passive sump*

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☑ Solid Waste

*Burn if burnable –otherwise fly out*

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☑ Bulky Items/Scrap Metal

*Fly out*

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☑ Waste Oil/Hazardous Waste

*fly out*

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☑ Empty Barrels/Fuel Drums

*fly out*

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☑ Other:

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33. Please describe incineration system if used on site. What types of wastes will be incinerated?

*In an empty drum modified for burning. Paper, scrap wood, and fuel dregs would be burned.*

34. Where and how will non-combustible waste be disposed of ? If in a municipality in Nunavut, has authorization been granted?

*This would include small amounts of metal food tins but would primarily be fuel drums that would be demobilised. We were not aware that permission is required to dispose of domestic waste in Iqaluit but this will certainly be done if required. Our inquiries regarding the removal of empty fuel drums from northern communities indicate that this is a serious problem for Nunavut in general and that even local businesses (including the Canada-Nunavut Geoscience Office) are currently at a loss as to how address it. Short of avoiding work initiatives in Nunavut, we're in similar straits and can only defer to such arrangements as are sure to evolve to assist this problem.*

35. Describe location (relative to water bodies and camp facilities ) dimensions and volume, and freeboard for sumps (if applicable).

*Sumps would be as far from water sources as possible and at least 30 metres from same.*

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?

*No formal leachate testing is planned. The brevity and nature of the presence does not suggest problems of this sort.*

## OPERATION AND MAINTENANCE

37. Have the water supply and waste treatment and disposal methods been used and proven in cold climate? What known O&M problems may occur? What contingency plans are in place?

*These systems are eminently simple and have proven themselves consistently in the past (even as far north as Devon Island). They are the standard for operations of this nature.*

## ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.

*The camp, garbage, and empty drums and will be demobilised to Iqaluit . Depending on the circumstances, residual cached fuel and /or portions of the camp may be left on site over winter to facilitate activation next year.*

## BASELINE DATA

39. Has or will any baseline information be collected as part of this project? Provide bibliography.

- ☑ Physical Environment (Landscape and Terrain, Air, Water, etc.)
- ☑ Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic
- ☑ Organisms, etc.)
- ☑ Socio-Economic Environment (Archaeology, Land and Resources Use,
- ☑ Demographics, Social and Culture Patterns, etc.)
- ☑ Other:

*In addition to the geological information which is the focus of the work, it is a matter of course to make note of (but not disturb) archaeological evidence and wildlife. These could not really be considered baseline studies but they* are *used as referents for possible future work.*

## REGULATORY INFORMATION

40. Do you have a copy of

- x Article 13 - Nunavut Land Claims Agreement
- x NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
- ☑ NWB - Interim Rules of Practice and Procedure for Public Hearings
- ☑ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
- ☑ NWTWB - Guidelines for Contingency Planning
- ☑ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
- ☑ Fisheries Act - s.35
- ☑ RWED - Environment Protection- Spill Contingency Regulations
- ☑ Canadian Drinking Water Quality Guidelines
- ☑ Public Health Act Camp Sanitation Regulations

☑ Public Health Act Water Supply Regulations
x Territorial Land Use Act and Regulations

You should consult the above document, guidelines, and legislation for compliance with existing regulatory requirements.

*Can you reference web sites for us that would have the documents we lack?*