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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Project: CASE 12 Vendom Fiord

**Applicant: Karsten Piepjohn, Federal Institute for Geosciences and Natural Resources (BGR),
Hannover, Germany**

Licence No: _____

(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Dr. Lutz Reinhardt Tel: +49 / 511 643 2786 _____ Fax: +49 / 511 643 3663 E-mail: Lutz.Reinhardt@bgr.de
2. Project Manager: Dr. Karsten Piepjohn Tel: +49 / 511 643 3236 _____ Fax: +49 / 511 643 3663 E-mail: Karsten.Piepjohn@bgr.de
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)? If so, please provide letter of authorization.
No
5. Duration of the Project
X One year or less Start and completion dates: 2011/08/05; 2011/08/30
☐ Multi Year:

If Multi-Year indicate proposed schedule of on site activities

Start: _____ Completion: _____

CAMP CLASSIFICATION

6. Type of Camp

- ☐ Mobile (self-propelled)
X Temporary
☐ Seasonally Occupied: _____
☐ Permanent
☐ Other: _____



7. What is the design, maximum and expected average population of the camp?
14 people between 2011/08/05 and 2011/08/30; 2 pilots, 1 cook, 8 scientists and Inuit field guides.
8. Provide history of the site if it has been used in the past.
There is an abandoned airstrip at the planned base camp.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.
The base camp will be located in the vicinity of Humphreys River in a hilly area (500 feet) of southern Braskeruds Plain east of the north end of Vendom Fiord.
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.
The location of the base camp was selected because (a) there is an abandoned airstrip and (b) because it is within the study area of CASE 12.
11. Is the camp or any aspect of the project located on:
- | | | |
|-------------------------------------|---------------------|--------------------------------------|
| <input checked="" type="checkbox"/> | Crown Lands | Permit Number (s)/Expiry Date: _____ |
| <input type="checkbox"/> | Commissioners Lands | Permit Number (s)/Expiry Date: _____ |
| <input type="checkbox"/> | Inuit Owned Lands | Permit Number (s)/Expiry Date: _____ |
12. Closest Communities (direction and distance in km):
Grise Fiord, about 200 kilometres to the south
13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?
Yes, we have contacted Hamlet Grise Fiord and the IVIC Hunters and Trappers Organisation in Grise Fiord.
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

PURPOSE OF THE CAMP

15. ☐ Mining (includes exploration drilling)

- ☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)
(Omit questions # 16 to 21)
☒ Other Research Expedition

16. Activities (check all applicable)

- ☐ Preliminary site visit
☐ Prospecting
☒ Geological mapping
☒ Geophysical survey
☐ Diamond drilling
☐ Reverse circulation drilling
☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
☐ Other: _____

17. Type of deposit (exploration focus):

- ☐ Lead Zinc
☐ Diamond
☐ Gold
☐ Uranium
☐ Other: _____

DRILLING INFORMATION

18. Drilling Activities

- ☐ Land Based drilling
☐ Drilling on ice

19. Describe what will be done with drill cuttings?

20. Describe what will be done with drill water?

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.

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

SPILL CONTINGENCY PLANNING

23. The proponent is required to have a site specific Spill Contingency Plan prepared and submitted with the application This Plan should be prepared in accordance with the *NWT Environmental Protection Act, Spill Contingency Planning and Reporting Regulations, July 22, 1998* and A

Guide to the Spill Contingency Planning and Reporting Regulations, June 2002. Please include for review.

24. How many spill kits will be on site and where will they be located?
1 spill kit will be located at the base camp.
25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.
Maximum 100 drums of helicopter kerosene 200 litres each stored on ground besides of airstrip;
2 drums of stove oil 200 litres each stored near the base camp; three 5 gallon jerry cans of gasoline for a generator stored near the base camp; we have no chemicals.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
Probably tributary to the Humphreys River.
27. Estimated water use (in cubic metres/day):
- | | | |
|-------------------------------------|--------------------|---------------------|
| <input checked="" type="checkbox"/> | Domestic Use: 1 m3 | Water Source: River |
| <input type="checkbox"/> | Drilling: _____ | Water Source: _____ |
| <input type="checkbox"/> | Other: _____ | Water Source: _____ |
28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? (see *DFO 1995, Freshwater Intake End-of-Pipe Fish Screen Guideline*) Describe:
We will take the water for the camp use directly with buckets from the river.
29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?
No
30. Will drinking water be treated? How?
No
31. Will water be stored on site?
In buckets for daily use in the camp.

WASTE TREATMENT AND DISPOSAL

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

☐ Camp Sewage (blackwater)

X Camp Greywater
Will be filled in sink holes

X Solid Waste
Will be returned to Resolute Bay; solid human waste will be buried.

X Bulky Items/Scrap Metal
Will be returned to Resolute Bay.

X Waste Oil/Hazardous Waste
Will be returned to Resolute Bay.

X Empty Barrels/Fuel Drums
Will be returned to Resolute Bay.

X Other: batteries
Will be returned to Resolute Bay.

33. Please describe incineration system if used on site. What types of wastes will be incinerated?
We will probably return the combustible waste back to Resolute Bay.
34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?
Will be returned to PCSP in Resolute Bay.
35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).
36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?
No.

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?
Yes. We don't expect O&M problems. An oil spill contingency plan is in place.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.
After the field work, we will put down the base camp, will clean-up the site and will return everything like garbage, equipment and empty fuel drums back to Resolute Bay.

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: _____

REGULATORY INFORMATION

40. At a minimum, you should ensure you have a copy of and consult the documents below for compliance with existing regulatory requirements:

- ✓ ARTICLE 13 – *NCLA -Nunavut Land Claims Agreement*
- ✓ NWNSRTA – *The Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002*
- ✓ *Northwest Territories Waters Regulations, 1993*
- ✓ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
- ✓ NWB - Interim Rules of Practice and Procedure for Public Hearings
- ✓ RWED – *Environmental Protection Act, R-068-93- Spill Contingency Planning and Reporting Regulations, 1993*
- ✓ RWED A Guide to the Spill Contingency Planning and Reporting Regulations, 2002
- ✓ NWTWB - Guidelines for Contingency Planning
- ✓ *Canadian Environmental Protection Act, 1999 (CEPA)*
- ✓ *Fisheries Act, RS 1985 - s.34, 35, 36 and 37*
- ✓ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
- ✓ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
- ✓ Canadian Council for Ministers of the Environment (CCME); Canadian Drinking Water Quality Guidelines, 1987
- ✓ Public Health Act - Camp Sanitation Regulations
- ✓ Public Health Act - Water Supply Regulations
- ✓ *Territorial Lands Act and Territorial Land Use Regulations; Updated 2000*