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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: _____HAMLET OF ARVIAT____Licence No: _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: _____Tel: _____ Fax: _____E-mail:_____

2. Project Manager:_____Tel: _____Fax: _____E-mail: _____

3. Does the applicant hold the necessary property rights?

4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization.

5. Duration of the Project

   ☐ One year or less Start and completion dates: _____
   ☐ Multi Year:

   If Multi-Year indicate proposed schedule of on site activities
   Start: _____ Completion:_____

CAMP CLASSIFICATION

6. Type of Camp

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

7. What is the design, maximum and expected average population of the camp?

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

CAMP LOCATION

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

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.

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

- ☐ Crown Lands Permit Number (s)/Expiry Date: _____
- ☐ Commissioners Lands Permit Number (s)/Expiry Date: _____
- ☐ Inuit Owned Lands Permit Number (s)/Expiry Date: _____

12. Closest Communities (direction and distance in km):

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

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?

PURPOSE OF THE CAMP

15.
- ☐ Mining (includes exploration drilling)
- ☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- ☐ Other _____

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

x☐ Land Based drilling
☐ Drilling on ice

19. Describe what will be done with drill cuttings?

For operation at proposed Site 1, drilling waste will be pumped into a sump adjacent to the drill. Rock flour will settle and drill water will drain. In colder temperatures this separation may not take place until spring thaw. Residual sand/rock flour will be removed by truck to the municipal gravel pit, as and when the sump becomes full. For operations at Site 2, drilling waste will be pumped onto the gravel pit floor.

20. Describe what will be done with drill water?

As outlined above in #19.

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.

No additives to be used.

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

No.

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.

Please see attached, 'Arviat Diamond Driller's Training – Spill Contingency Plan'

24. How many spill kits will be on site and where will they be located?

1 kit will be on site, located at the drill.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.

Maximum 5,000 litre diesel fuel (stored in double walled sloop tank)
1 x drum unleaded gasoline
6 x 1 litre containers of motor oil
2 x 4 litre containers of transmission fluid
2 x 20 litre containers of hydraulic oil

During operations, fuel will be stored in a double-walled 'sloop tank' on skids, with a capacity of approximately 5,000 litres. It will be filled as required by fuel delivery truck. Fuel will be dispensed to the drill tank and other facilities by hose and transported by jerry cans to water pumps. The sloop tank will be removed to a secure location after each course. Lubricants would be stored in their original containers, and delivered to site as and when required to meet immediate needs.

MSDS sheets will be available at the Drill site, and all personnel will be required to review them prior to working in the field.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Two unnamed ponds adjacent to drill practice sites and, if these ponds are frozen, the Arviat municipal water reservoir.

27. Estimated water use (in cubic metres/day):

☐ Domestic Use: _____ Water Source: _____
x Drilling: _____25 m^3/day___ Water Source: _lakes or reservoir_____
☐ 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:

No water intake for camp operations.

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?

No.

WASTE TREATMENT AND DISPOSAL

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

x☐ Camp Sewage (blackwater)

_____ Less than 200 litres per year Disposal into municipal sewage lagoon – via sewage truck___

☐ Camp Greywater

_____

x☐ Solid Waste

_____ 30 litres per day - Disposal into municipal dump – via pickup truck _

☐x Bulky Items/Scrap Metal

_____ Disposal into municipal metal dump – via pickup truck _____

☐x Waste Oil/Hazardous Waste

_____20 litres per day Stored in used fuel drums and burned in Hamlet waste oil furnace _____

☐x Empty Barrels/Fuel Drums

_____ Disposal into municipal metal dump – via pickup truck

☐ Other:

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

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

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?

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?

ABANDONMENT AND RESTORATION

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

    Please see attached 'A&R plan – Arviat Diamond Driller's Training'

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