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NUNAVUT WATER BOARD

NUNAVUT IMALIRIYIN KATIMAYINGI

## EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Government of Nunavut Licence No: \_\_\_\_\_  
(For NWB Use Only)

### ADMINISTRATIVE INFORMATION

1. Environment Manager: Sudhir Kumar Jha Tel: 867 983 4008 Fax: 867 983 4124  
E-mail: sjha@gov.nu.ca
2. Project Manager: Same as above
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  
☒ Annual  
☐ Multi Year:  
If Multi-Year indicate proposed schedule of on site activities  
Start: July 31, 2008 Completion: October 31, 2008

### CAMP CLASSIFICATION

6. Type of Camp: **Not Applicable**  
☐ Mobile (self-propelled)  
☐ Temporary  
☐ Seasonally Occupied: \_\_\_\_\_  
☐ Permanent  
☐ Other: \_\_\_\_\_
7. What is the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?  
**No camp is required for this exploration program. Crews will be based in Kugluktuk.**
8. Provide history of the site if it has been used in the past.  
**Not applicable.**

## CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.  
**Not applicable.**
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.  
**Not applicable.**
11. Is the camp or any aspect of the project located on: **Not applicable.**  
[ ] 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 (distance in km):  
**The exploration program is within the community of Kugluktuk, inside the municipal boundary.**
13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?  
**The SAO of Kugluktuk, Water Foreman, and other related administrative hamlet personnel have been kept apprised of this exploratory initiative to solve the community's water quality problems.**
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 impacts are anticipated. This program will explore the possibility of extracting groundwater from a sub-river aquifer to provide potable water for the community of Kugluktuk.**
15. ☐ Mining –  
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)  
(Omit questions # 16 to 21)  
☒ Other \_\_\_\_\_ (Omit questions # 16 to 22)
16. ☐ Preliminary site visit  
☐ Prospecting  
☐ Geological mapping  
☐ Geophysical survey  
☐ Diamond drilling  
☐ Reverse circulation drilling  
☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)  
☒ Other: **Potable water investigative drilling**
17. Type of deposit:

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

18. Drilling Activities

- ☒ Land Based drilling
- ☐ Drilling on ice

19. Describe what will be done with drill cuttings?

**All land-based drill cuttings/mud will be collected and removed to the Kugluktuk landfill where they will be used as cover.**

20. Describe what will be done with drill water?

**Drill water will be pumped to a sump that will be located a minimum of 31 metres from the normal high water mark of any water body.**

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.

**Please see attached Spill Contingency Plan, Appendix IV– MSDS Sheets**

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

**Not applicable.**

## SPILL CONTINGENCY PLANNING

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

**Yes there is a Spill Contingency Plan in place. It is attached to this application for review.**

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

**There will be a spill kit located at the drill.**

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

**Please refer to the attached Spill Contingency Plan, Appendix IV– MSDS Sheets, attached with this application.**

## WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

**Water to be used for the exploration drilling will come from the Coppermine River.**

27. Estimated demand:

- ☐ Domestic Use: \_\_\_\_\_ Water Source: \_\_\_\_\_
- ☒ Drilling Units: **50 cubic m/day** Water Source: Coppermine River
- ☐ 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:

**The water intake for the drill will be facilitated using a submersible pump with a filtered intake that complies with DFO guidelines for screens to prevent the entrainment of fish.**

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?

**Not applicable.**

30. Will drinking water be treated? How?

**Not applicable.**

31. Will water be stored on site?

**No.**

## WASTE TREATMENT AND DISPOSAL

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

- ☐ Camp Sewage (blackwater) – **Not applicable**

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- ☐ Camp Greywater – **Not applicable**

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- ☒ Solid Waste – **minimal amount anticipated**  
- disposal method – **Kugluktuk landfill**

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- ☒ Bulky Items/Scrap Metal – **minimal amount anticipated**  
- disposal method – **Kugluktuk landfill**

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- ☒ Waste Oil/Hazardous Waste – **minimal**  
- removed from site with a **Waste Manifest**

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- ☒ Empty Barrels/Fuel Drums  
- removed on a regular basis
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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?  
**Not applicable.**
34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?  
**Non-combustible, inert waste will be removed and taken to the Kugluktuk landfill.**
35. Describe location (relative to water bodies and camp facilities ) dimensions and volume, and freeboard for sumps (if applicable).  
**All sumps will be located at a minimum of 31 metres from the normal high water mark of any water body including streams.**
36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?  
**Visual inspections of drill sumps will be conducted prior to leaving the drill hole and at the end of the field season. In the event that any leaching is observed, the INAC Water Resource Officer will be contacted immediately.**

## 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?  
**The treatment and disposal methods being proposed are currently in practice across the north and follow the regulated guidelines and accepted methods. The current contingency plan at this time is mitigation (safe distance for disposal in sumps, removal of any hazardous chemicals/scrap metal/non-combustible waste, etc.) and monitoring. Should there be any concerns; the INAC Water Resource Officer will be notified immediately.**

## ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.  
**Please see attached "Abandonment & Restoration Plan".**

## 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. Do you have a copy of

- ✓ Article 13 - Nunavut Land Claims Agreement
- ✓ 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
- ✓ Territorial Land Use Act and Regulations

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





