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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Department of National Defence **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: DEW Line Clean-Up Senior Project Manager
   Position Currently Occupied By: Alison Street Tel: 343-998-5481 Fax: N/A
   E-mail: alison.street@forces.gc.ca

2. Project Manager: Same as above
   Position Currently Occupied By: Tel: Fax: N/A
   E-mail:

3. Does the applicant hold the necessary property rights? Yes, the land is a DND reserve.

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

5. Duration of the Project

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

   The next monitoring events at FOX-2 are planned to take place in August 2022, August 2026 and August 2036. A brief maintenance visit is also anticipated in August 2031 to change the batteries in ground temperature monitoring equipment.

   If Multi-Year indicate proposed schedule of on site activities
   Start: Late July/Early August Completion: Late August/Early September

CAMP CLASSIFICATION

6. Type of Camp

   ☐ Mobile (self-propelled)
   ☒ Temporary (mobilized and demobilized with monitoring team)
   ☐ Seasonally Occupied:_____
   ☐ Permanent
   ☐ Other:_____

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

The camp at FOX-2 will be composed of several temporary tents; it will be able to accommodate 6 (average) to 10 (maximum) people.

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

FOX-2 is a former DEW Line site that was closed in the early 1990s; site remediation was completed in 2011. Long-term monitoring of remaining landfills at the site occurs according to the schedule agreed upon between DND and Nunavut Tunngavik Incorporated (NTI).

CAMP LOCATION

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

The camp will be located on the airstrip apron.

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 camp location was selected based on access and availability of a flat gravel pad.

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

☒	Crown Lands	Permit Number (s)/Expiry Date: Not required
☐	Commissioners Lands	Permit Number (s)/Expiry Date: _____
☐	Inuit Owned Lands	Permit Number (s)/Expiry Date: _____

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

The closest community is Sanirajak, approximately 250 km west of the site.

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

The DEW Line Clean-Up Project included extensive stakeholder consultation between the 1990s and the 2010s; the results of these consultations were incorporated into the long-term landfill monitoring plan. The DND-NTI DEW Line Steering Committee is apprised of all work associated with this plan.

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: Landfill monitoring program

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: Landfill inspection, collection of surface soil and groundwater samples, and monitoring of ground temperatures

17. Type of deposit (exploration focus): N/A

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

DRILLING INFORMATION

18. Drilling Activities

- ☐ Land Based drilling
- ☐ Drilling on ice

No drilling is planned at this time; however, monitoring well repair/replacement/ decommissioning activities may be required in the future, which could necessitate shallow land-based drilling.

19. Describe what will be done with drill cuttings?

If drilling is required for potential future well repair/replacement/decommissioning activities, DND will ensure that the contract for this work requires the successful bidder to develop and implement a robust Health, Safety and Environment Plan that would address proper disposal of any drill cuttings that are generated.

20. Describe what will be done with drill water?

If drilling is required for potential future well repair/replacement/decommissioning activities, DND will ensure that the contract for this work requires the successful bidder to develop and implement a robust Health, Safety and Environment Plan that would address proper disposal of any drill water that is generated.

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.

DND does not anticipate that drill additives would be required for potential future well repair/replacement/decommissioning activities. If drill additives are required, DND will ensure that the contract for this work requires the successful bidder to develop and implement a robust Health, Safety and Environment Plan that would address proper management, use and disposal of any drill additives that are required.

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.

See attached Spill Contingency Plan.

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

The Spill Contingency Plan requires the contractor conducting the long-term landfill monitoring to follow all applicable federal and territorial laws and regulations related to fuel storage, including, but not limited to, provision for the appropriate types/quantities of spill kit materials and equipment. It is anticipated that the spill kits would be located at the camp and/or in the possession of the landfill monitoring team members.

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

At most, there will be 1 x 200 litre barrel (or 10 x 20 litre jerry cans) of unleaded gasoline and 5 x 20 litre jerry cans of diesel fuel on-site to refuel an ATV and operate a generator. Refer to the Spill Contingency Plan for the MSDS sheets.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Potable water for the camp will be brought to the site in bottles. Groundwater samples will be collected from existing monitoring wells.

Surface water use at the site is not planned at this time. Only in unforeseen and/or emergency circumstances would surface water at the site be used for domestic consumption. Some surface water might be required for possible future monitoring well repair/replacement/ decommissioning activities that may occur at the site. In these cases, the surface water would be collected from Water Supply Lake, or from one of the small unnamed surface water bodies near the airstrip and/or landfills.

Refer to the supporting documents provided with the Water Use Licence renewal/amendment for the locations of the monitoring wells, Water Supply Lake and the other water bodies.

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

☐ Domestic Use: _____ Water Source: _____
☐ Drilling: _____ Water Source: _____
☒ Other: <1m^3/day Water Source: Refer to #26, above

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:

Potable water for the camp will be brought to the site in bottles. In an unforeseen and/or emergency situation, water for the camp operations would be extracted using buckets or bottles. It is not anticipated that an intake with a fish screen would be required.

Water for potential monitoring well repair/replacement/decommissioning activities would be obtained using a portable pump fitted with an end-of-pipe screen and pumped at a rate suitable for preventing intake of sediment and/or biota, in accordance with the above guideline.

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

Potable water for the camp will to be brought to the site in bottles. In an unforeseen and/or emergency situation, water for the camp operations would be filtered and/or treated with iodine. Water quality monitoring would not be applicable.

30. Will drinking water be treated? How?

Refer to #29, above.

31. Will water be stored on site?

No. Bottled water would be temporarily stored at the camp, and would be demobilized with the work team and their equipment.

WASTE TREATMENT AND DISPOSAL

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

- [x] Camp Sewage (black water): Small quantities; will be buried in pit toilet.

- [x] Camp Grey water: Small quantities; will be buried in pit.

- [x] Solid Waste: Small quantities; will be disposed of at an approved off-site facility.

- [ ] Bulky Items/Scrap Metal: N/A

- [ ] Waste Oil/Hazardous Waste: N/A

- [x] Empty Barrels/Fuel Drums: Small quantities; will be removed from site.

- [ ] Other: N/A

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

N/A

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

Solid waste will be disposed of at an approved off-site facility.

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

N/A

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

Landfill monitoring activities are outlined in the supporting documents.

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?

N/A

ABANDONMENT AND RESTORATION

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

Abandonment and restoration activities have already been completed at this site and the landfill monitoring program is used to monitor the status of the site, post-clean up. All equipment used for the monitoring program is temporary and will be removed each year upon completion.

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: _____

N/A

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