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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Advanced Explorations Inc. (Tuktu Project) **Licence No:**_____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Gary Williams Tel: (416) 203-0057 ext. 224 Fax: (416) 203-0059
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2. Project Manager: Steve Roebuck Tel: (416) 203-0057 ext. 222 Fax: (416) 203-0059
E-mail: steve@advanced-exploration.com

3. Does the applicant hold the necessary property rights? Yes (Mineral Claims HABS 1 – 11)
INAC land use permit pending

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

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

If Multi-Year indicate proposed schedule of on site activities
Start: Each year March 30 (approx.) Completion: Each year Sept. 30 (approx.)

CAMP CLASSIFICATION

6. Type of Camp

☐ Mobile (self-propelled)
☒ Temporary
☒ Seasonally Occupied: April 1 to Sept. 30 (approx.)
☐ Permanent
☐ Other:_____

7. What is the design, maximum and expected average population of the camp?
The Tuktu camp will be similar in design and materials as AEI's Roche Bay Camp where Weatherhaven tents are used. The initial design for the camp will be for approximately 15 – 20 people. This will account for staff related to the geology program, drilling, helicopter, camp maintenance and consultants. Maximum camp size will depend on the success and needs of the exploration program. (Please refer to attached camp schematic)

8. Provide history of the site if it has been used in the past.
The site has not been used in the past.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.
The proposed camp location is on an area of higher ground between two large lakes, with thin surficial cover and typical arctic vegetation.

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 for its proximity to a large lake and the area of expected exploration. The site has not been previously used. The preliminary site location was not chosen with the assistance of the Regional Inuit Association Land Manager.

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

☒ Crown Lands Permit Number (s)/Expiry Date: INAC Currently Under Application
☐ 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 communities are Hall Beach (located approximately 70 kms ESE of Project (Tuktu)) and Igloolik (located approximately 60 kms NE of Tuktu)

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?
AEI will be notifying nearby communities of the proposed work, once plans for the upcoming field season are finalized.

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?
AEI is not aware of traditional water use areas in the vicinity of Tuktu. The amount of water used by the project will not impact local fish and wildlife habitats, based on observations from AEI's Roche Bay camp.

PURPOSE OF THE CAMP

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

16. Activities (check all applicable)

- [x] 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 (exploration focus):

- [ ] Lead Zinc
- [ ] Diamond
- [ ] Gold
- [ ] Uranium
- [x] Other: Iron ore

DRILLING INFORMATION

18. Drilling Activities

- [x] Land Based drilling
- [ ] Drilling on ice

19. Describe what will be done with drill cuttings?
At each drill site, the water return will be filtered through a PollyDrill system to remove drill cuttings. The cuttings will then be used to reclaim any washout areas around their source drill-holes, as required.

20. Describe what will be done with drill water?
Water return will be filtered through a PolyDrill system to remove drill cuttings, with filtered water directed towards a sump and away from surface water bodies. Calcium chloride will be the only drill additive used during the program. Water use will be similar to that used in AEI's previous Roche Bay programs, and taken from local lakes.

21. List the brand names and constituents of the drill additives to be used? Include MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable.
(Please refer to attached Spill Plan for MSDS on drill additives, etc.)

22. Will any core testing be done on site? Describe.
Core will be geologically logged, with the iron formation intervals cut into 2 pieces with a core saw. Half of the sample will then be flown off-site for crushing, with a subsample of the crushed material forwarded to a commercial laboratory for analytical testing. The other half of the sample will remain in the core boxes and stored on site.

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 refer to attached Spill Contingency Plan)

24. How many spill kits will be on site and where will they be located?
A spill kit will be located at each drill, and at the camp.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.
(Please refer to attached Spill Contingency Plan)

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
Water sources for camp and drilling operations will be the nearest lake of sufficient size to provide the water required without impacting the lake level or flow.

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

- ☐ Domestic Use: 2.5 Water Source: see above
- ☐ Drilling: 180 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? (see *DFO 1995, Freshwater Intake End-of-Pipe Fish Screen Guideline*) Describe:
The water intake for the camp will be approximately 2.5 cubic metres/day, based on the average used per person per day at AEI's Roche Bay camp. The intake will be equipped with the required mesh screen.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?
Drinking water will be largely flown into camp. Water taken from local surface water sources and used for drinking or cooking will be sampled on a regular basis and tested on-site for health parameters.
Additional samples will be sent to a commercial laboratory for additional health parameters. (Please refer to attached sample SGS Environmental Services Analytical Determinations)

30. Will drinking water be treated? How?
Drinking water will not be treated on-site.

31. Will water be stored on site?
Water will be stored on-site for daily use in closed tanks, approved for potable water use.

WASTE TREATMENT AND DISPOSAL

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

☒ Camp Sewage (blackwater)

incinerated, ashes stored in barrels and removed from site, shipped to proper disposal facility

☒ Camp Greywater

grease trap will be in place to filter out food waste and other material before it is released to a sump and directed away from surface water

☒ Solid Waste

will be incinerated, ashes stored in barrels and removed from site, shipped to proper disposal facility

☒ Bulky Items/Scrap Metal

removed from site and shipped to proper disposal facility

☒ Waste Oil/Hazardous Waste

waste oil will be put in 45g drums, identified and removed from site for proper disposal

☒ Empty Barrels/Fuel Drums

empty barrels will be removed from site for proper disposal (some will hold refuse and ash)

☒ Other:

Drilling Greywater will run into a sump, and be redirected away from water source

33. Please describe incineration system if used on site. What types of wastes will be incinerated?
An approved two-stage burning incinerator will be used. See above for wastes to be incinerated.

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?
Non-combustible waste will be removed from site and shipped to a approved waste facility

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).
To be determined once camp plans are finalized. (similar to AEI's Roche Bay Project)

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?
No leachate will be produced on-site. A plan is being put in place to monitor subwatersheds adjacent to the camp at their discharge points on a monthly basis during the summer months, as part of the longer term environmental monitoring program. (Please refer to the attached page for an example of the parameters being analysed for)

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?
All water supply and waste treatment and disposal methods to be used at Tuktu have been in place at AEI's Roche Bay camp since 2007.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.
(Please refer to the attached Abandonment and 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: _____

There has been no field work started on the Tuktu project yet. Once field work does start, an environmental baseline monitoring program will be initiated, based on that currently being conducted at AEI's Roche Bay Project. Studies to be undertaken include:

- Surface water monitoring
- Archaeology studies
- Fisheries studies
- Vegetation studies
- Caribou studies
- Breeding bird and raptor studies
- TEK and socio-ec studies as part of the overall Roche Bay project

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