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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: _____ **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Andrew Turner Tel: 780-433-1336 Fax: 780-433-1336 Email: andrewt@apexgeoscience.com

2. Project Manager: Andrew Turner Tel: 780-433-1336 Fax: 780-433-1336 E-mail: andrewt@apexgeoscience.com

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. ATTACHED

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: June 2011 Completion: June 2016

CAMP CLASSIFICATION

6. Type of Camp

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

7. What is the design, maximum and expected average population of the camp?
   The base camp should house up to 16 people, to operate up to three diamond drills. Please see attached proposed camp map.

8. Provide history of the site if it has been used in the past.
   No existing camp.

CAMP LOCATION

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

Option A: The original approved (2BE-FBP1116) location within the 2826 Lease, will be the same as originally applied for.

Option B: The North Shore of Folster Lake, Latitude 68° 6' 2" N and Longitude 85° 52' 36" W.
Littoral Deposits including flights of boulder beaches developed on end moraines; offshore and sublittoral deposits, including stratified sand and silt with ice-rafted boulders and dropstones; areas with granitic till blankets 1-10 m thick; and highly polished upland surfaces of Proterozoic low grade metasedimnents.

Option C: South of Mackar Dew-line (Cam-5) Site, Latitude 68° 20' 14"N and Longitude 85° 44' 14"W.
Offshore and sublittoral deposits, including stratified sand and silt with ice-rafted boulders and dropstones and gravelly. Hummocky granitic till blankets, kettled in some areas.

On a search of the Nunavut Planning Committee interactive map, there does not appear to be any "biogeographical areas of interest" near any of the proposed camp area and will be typical arctic coastal flora and fauna.

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 potential camp locations have been selected by all available GIS data, satellite imagery and correspondences with other exploration companies and government bodies (such as in case of the Mackar site with the Department of National Defense and the GSC). The sites have not been previously used which is why there is a need for a broad area licence that will allow for an exact choice to be made when the crew is able to go up and ground truth the locations.

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

■	Crown Lands	Permit Number (s)/Expiry Date: Option C: N2011J0032
□	Commissioners Lands	Permit Number (s)/Expiry Date: _____
■	Inuit Owned Lands	Permit Number (s)/Expiry Date: Options A & B: Q11L3C009

12. Closest Communities (direction and distance in km): See insert in Fig 1.
Kugaaruk – 180km West
Repulse Bay – 188km Southwest
Hall Beach – 165km East
Igloolik – 200km Northeast

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

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 _____

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: Iron

DRILLING INFORMATION – Will not change from original application as will remain on lease

18. Drilling Activities

- ☒ Land Based Drilling
- ☒ Drilling On Ice

19. Describe what will be done with drill cuttings?

Land based drill cuttings will be collected in sumps and then be mixed with peat moss and fertilizer and reintroduced to the environment. Ice based drill cuttings will be collected in tanks and then follow the same process; See attached plan.

20. Describe what will be done with drill water?

All land based drilling fluids will be treated in sumps and allowed to drain into the surrounding landscape; Ice based drill water will be in collected in tanks and moved to a suitable land based depression to drain.

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.
550x Polymer, Linseed Soap, Big Bear Diamond Rod Grease.

22. Will any core testing be done on site? Describe.
Core will be flown to camp and be mechanically cut and sampled.

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?
Three large spill kits will be positioned around the main fuel cache and smaller kits will be placed at each operating drill location, generator shack, the helicopter pad and the office. See Fuel Management Plan.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.
See Environmental Management Plan and Spill Contingency Plan.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
The camp will be located close to the lake but be a minimum of 30 metres from the high water mark of any water body. Refer to camp map for water draw points.

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

☒ Domestic Use: Up to $25m^3$ per day Water Source: Local camp lakes
☒ Drilling: Up to $35m^3$ each per day Water Source: Small lakes, ponds and streams
☐ 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:

A land based pump with a filtered intake (mesh screen).

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

Yes, drinking water quality will be monitored for various types of coliform bacteria, upon mobilization to the camp, periodically during the program and upon de-mobilization. A separate UV filter will be used to treat drinking water.

30. Will drinking water be treated? How?

Water will be lightly chlorinated, and a UV filter used on the drinking water at the camp location.

31. Will water be stored on site?

There will be water stored on-site in a 250 gallon tank for domestic use.

WASTE TREATMENT AND DISPOSAL

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

- ☒ Camp Sewage (blackwater)
- ☒ Camp Greywater
- ☒ Solid Waste
- ☒ Bulky Items/Scrap Metal
- ☒ Waste Oil/Hazardous Waste
- ☒ Empty Barrels/Fuel Drums
- ☐ Other: See attached environmental management plan.

33. Please describe incineration system if used on site. What types of wastes will be incinerated?
Due to the small size of the camp and designed exploration program combustible waste will be stored, sealed in containers and shipped to the nearest appropriate disposal site.

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?
All non-combustible waste will be transported to an appropriate city/municipal dump.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).
A sump located near the kitchen and dry with approximate dimensions of 3m x 3m x 1.2 m will be used; the sump will be 100m from surface water.

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

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, the proposed waster and water treatments have been used in cold climates with little to no effects on the environment in cold climate. See Environmental Management Plan and Spill Contingency Plan for further details.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site. See Environmental Management Plan and the Abandonment and Reclamation Plan.

BASELINE DATA

39. Has or will any baseline information be collected as part of this project? Provide bibliography.
N/A

- ☐ 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