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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

# EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

**Applicant: KENNECOTT CANADA EXPL. INC.** **Licence No: _____**
(For NWB Use Only)

## ADMINISTRATIVE INFORMATION

1. Land Manager: Diane Gregory Tel: 604-669-1880 Fax: 604-669-5255
E-mail:*diane.gregory@kennecott.com*

2. Project Manager: Susan Ball Tel: 604-669-1880 Fax: 604-669-5255
E-mail: *susan.ball@kennecott.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)? **NO**
If so, please provide letter of authorization.

5. Duration of the Project
[ ] Annual
[ **X** ] Multi Year:
If Multi-Year indicate proposed schedule of on site activities
Start: September 1, 2002 Completion: Dec.31, 2004

## CAMP CLASSIFICATION > see existing license NWB2TAK

6. Type of Camp
[ ] Mobile (self-propelled)
[ ] Temporary
[ **X** ] Seasonally Occupied: _____
[ ] Permanent
[ ] Other:_____

7. What are the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?
***Can take up to 32 persons; generally 10-15 during field surveys***

8. Provide history of the site if it has been used in the past.
***Exploration Camp has been in this place since 1992; no prior use for this site.***

**CAMP LOCATION > see license NWB2TAK**

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

***The Tak camp is located on the top of a sand and gravel esker, with little or no vegetation cover. The nearest body of water is a small un-named lake approx. 250m west.***

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.

***Camp was selected for location next lake for both water supply and ice and water air landing facilities.***

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

[**X**] Crown Lands Permit Number (s)/Expiry Date: **N2002J0022 June13/04**
**N2000C0004 Mar2/03**

[ ] Commissioners Lands Permit Number (s)/Expiry Date: _____

[**X**] Inuit Owned Lands Permit Number (s)/Expiry Date: **KTL301C002; Mar1/03**

12. Closest Communities (distance in km):

***KUGLUKTUK, 160km NW.***

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
○ 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: _____

17. Type of deposit:

- ○ Lead Zinc
- ⊘ Diamond
- ○ Gold
- ○ Uranium
- ○ Other: _____

**DRILLING INFORMATION**

18. Drilling Activities

- ⊘ Land Based drilling
- ⊘ Drilling on ice

19. Describe what will be done with drill cuttings?

***Removed from site.***

20. Describe what will be done with drill water?

***Re-circulated; or pumped to grey water sump on land (> 30m from 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.

***MSDS sheets on file with original license NWB2TAK***

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

***NO***

**SPILL CONTINGENCY PLANNING**

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

***YES: Spill Plan on file with NWB2TAK***

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

***3: 1 at main fuel storage site; 1 in generator refueling area; 1 mobile with drill rig.***

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.
***9,000L of P50: Diesel for drill rig operation***
***9,000L Jet-B***
***10-12 cylinders of Propane for camp stoves***
***400L unleaded gasoline for snowmobiles***
***All fuel and chemicals are in sealed containers; all moved by helicopter.***

## WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
***Small un-named lake 250m to the WEST, for the camp; lake or streams for drilling.***

27. Estimated demand (in L/day * person):
- ⦸ Domestic Use: ***up to 2,000L/day*** Water Source: ***lake 250m W***
- ⦸ Drilling Units: ***+/- 20,000L/day*** Water Source: ***lakes&creeks***
- ○ 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:
***Water for camp is drawn from lake using a 1.5Hp pump with a 4" intake hose fitted with a 4mm strainer; and a 2" outlet hose.***

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?
***Drinking water is monitored twice a year at camp start-up in the spring and summer. The parameters and recent results are attached.***

30. Will drinking water be treated? How?
***NO***

31. Will water be stored on site?
***For the camp in three 250gallon drinking water reservoirs;***
***For drilling in a 5,000L recirculation tank.***

## WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:
- ⦸ Camp Sewage (blackwater)

***2m deep x 1m x 1m pit toilets dug each year; as they fill they are covered with lime and the top 0.5m are covered with sand; the location is >100m from the lake.***

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- ⦸ Camp Greywater

***1m deep x 3m x 2m grey water sump has been dug on the side of the esker; limes is spread on the pit weekly during summer use and at the end of seasonal camp occupation.***

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- ⦸ Solid Waste

***All combustible solid waste is burned in 2 incinerators (modified fuel drums); the remaining ash and non-burnable material is flown out to Yellowknife or Lupin in 45gal drums.***

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- ⦸ Bulky Items/Scrap Metal ***removed to Yellowknife***

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- ⦸ Waste Oil/Hazardous Waste

***Waste oil is burnt in the incinerators and hazardous wastes are flown to Yellowknife.***

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- ⦸ Empty Barrels/Fuel Drums

***Stored in camp and back hauled to Yellowknife***

○ Other:

33. Please describe incineration system if used on site. What types of wastes will be incinerated?
***System used is supplied by Northern Service & Supply Ltd. And consists of 2 converted 45 gallon drums. All combustible materials are burned in the drums.***

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

35. Describe location (relative to water bodies and camp facilities ) dimensions and volume, and freeboard for sumps (if applicable).
***See Question 32.***

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?
***NO***

## 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***

## ABANDONMENT AND RESTORATION

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

***Each drill site will have all materials removed after completion of each drill hole. Drill holes are plugged to prevent water leakage. Site closure (camp)and reclamation will consist of taking down all structures, and flying all equipment, debris and non-combustible materials to Yellowknife and/or Lupin. All wood and combustibles will bbe burned on site.***

## 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.