P.O. Box 119
Gjoa Haven, NU X0B 1J0
Tel: (867) 360-6338
Fax: (867) 360-6369

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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

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

ADMINISTRATIVE INFORMATION

1. Environment Manager: Darren O'brien Tel: 604 682 9930 Fax: 604 961 1485 E-mail: **info@terranemetals.com**

2. Project Manager: Patrick Lengyel Tel: 204 255 4037 Fax: 204 255 0708 E-mail: **glog@mts.net**

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

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

   If Multi-Year indicate proposed schedule of on site activities
   Start: July 1 2007 Completion: 2007 – Oct 31 2007, ongoing annually

CAMP CLASSIFICATION

6. Type of Camp

   ☐ Mobile (self-propelled)
   ☐ Temporary
   ■ Seasonally Occupied: 2007 planned occupation July 1-Oct 31
   ☐ Permanent
   ☐ Other:_____

7. What is the design, maximum and expected average population of the camp?
   Anticipated population 16-20

8. Provide history of the site if it has been used in the past.
   Water Permit for same property previously granted to Placer Dome (CLA) Ltd. NWB2MZE0406-Type "B"

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.
The camp is located within the Caribou Protection Measures area immediately west of Whale Cover and approximately 125 km southeast of KIA published Caribou crossings. The camp is located between Ferguson River and Maze Lake and the dividing line between their respective watersheds passes through the property.

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 previous property owners, Placer Dome (CLA) Ltd. selected the camp site based on a combination of historic data, known mineral occurrences, and planned activity. It is also only one of two suitable eskers in the immediate area suitable for aircraft use.

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

☐	Crown Lands	Permit Number (s)/Expiry Date: _____
☐	Commissioners Lands	Permit Number (s)/Expiry Date: _____
■	Inuit Owned Lands	Permit Number (s)/Expiry Date: pending

12. Closest Communities (direction and distance in km):
Whale Cove, approximately 55 km ESE from camp.

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?
Previous owners consulted the communities of Whale Cove and Rankin Inlet in 2003 and 2004. Follow up presentations were planned prior to a corporate take-over and sale of this asset to Terrane Metals. Terrane Metals is finalizing a presentation date with the Mayor of Whale Cove for May 2007.

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?
The project will not have an impact on traditional water use. The project is not expected to have an impact on either fish or wildlife habitats. The area is in the Caribou Protective Measures area and activity has been scheduled beyond the restricted access dates except for a variance to re-establish a camp, which is pending.

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: geochemical sampling (soil, lake sediment

17. Type of deposit (exploration focus):

- ☐ 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?
Drill cuttings will be discharged in sumps or natural depressions at requisite distance from bodies of water.

20. Describe what will be done with drill water?
Drill water is recirculated at 80%. The amount not recirculated will be discharged in sumps or natural depressions.

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 of drill additives likely to be used are provided in Appendix E. If brand names were to change once the drilling contractor is chosen, new MSDS sheets will be forwarded to WCB office.

22. Will any core testing be done on site? Describe.
No. Core will be sawed and flown out to a laboratory. Core cutting will be done with a rock saw cooled and lubricated with water. Used water and rock cuttings will be captured in a container, decanted, and discharged in a sump.

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.

A preliminary spill contingency plan has been prepared. Once all the information is known about contractors and final camp layout, it will be updated and a copy sent to your office. The preliminary plan is in appendix C.

24. How many spill kits will be on site and where will they be located?
One spill kit, clearly labeled, will be available at the main camp, at the main fuel cache near camp, and at the drill site. Shovels will be available in camp and one shovel will be included in the remote fuel spill kits. Absorbent padding or drip pans will be underneath stationary equipment and where fuel is transferred.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.
See sections 7 and 8 of Detailed Project Description in Appendix A.
MSDS sheets are in Appendix E.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
Camp water source will be from the large lake 100m away from camp.

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

- ■ Domestic Use: 2.8 m^3 Water Source: Large Lake nearby
- ■ Drilling: 14.5m^3 Water Source: Lakes adjacent to holes
- ☐ 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:
Small (<10 HP) gasoline water pump. Water suction line equipped with a mesh screen to prevent entrainment of fish.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?
Yes, one(1) sample will be taken when mobilizing the camp. Further samples will be taken if weather conditions change or if deemed necessary. Tests will be conducted with a field test kit and there will be standard water examinations for various types of coliform bacteria.

30. Will drinking water be treated? How?
Based on test results, water could be chlorinated or boiled.

31. Will water be stored on site?
Water will be stored in the hot water tank and in the potable water tank.

WASTE TREATMENT AND DISPOSAL

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

- ■ Camp Sewage (blackwater) The current plan is to continue with a hand-dug

outhouse/latrine as was used by Placer Dome in 2003-2004. However, the logistics service is also checking into composting toilets as an alternative.

■ Camp Greywater Camp greywater (cooking, washing) will be discharged in a covered sump pit to be dug in sandy glacial till material at least 100m from any water source. Total amount estimated to be 22 m^3.

■ Solid Waste Garbage will be collected in standard receptacle and incinerated daily. Total of 2700 lbs.

■ Bulky Items/Scrap Metal When possible, scrap will be recycled, when impossible, metal will be packaged and flown out to a municipal discharge and wood will be burned. Total of 4000 lbs.

■ Waste Oil/Hazardous Waste Only a small amount of waste fuel and oil will be produced (less than 3 drums). If suitable, oil will be used for the incinerator. If not, it will be flown out to source. Household cleaners and oil stored and disposed in original containers. Total of 1 gal of household and 45 gal of waste oil,fuel.

■ Empty Barrels/Fuel Drums Empty drums and cylinders will be flown out to source. Total of 343 drums currently on site. Additional 4 drums and 16 bottles of propane will be mobed to the site in 2007.

■ Other:

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33. Please describe incineration system if used on site. What types of wastes will be incinerated?
The incinerator will be made of 45 gal drum with an inside basket, a lid and a chimney as the model designed by GNWT Renewable Resources and suggested by R.Eno (DIAND) on NWB ftp site or any superior model that could be provided by the camp building contractor. Wastes to be burned will be kitchen refuse, paper, cardboard, and wood.

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 packed and flown out regularly by fixed-wing airplane or by helicopter to a municipal discharge. Authorization has not been asked and granted yet but it will be discussed at the coming meeting in Whale Cove.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).
The sumps will be located at least the requisite distance from any body of water. The greywater covered camp sump will be of approximately 1m X 1m X 1.5m with a freeboard of 30 cm. Sumps will be monitored daily.

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?
Not Applicable

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 water pumping system can be dismantled and thawed in a heated building if needed. A spare pump will be available. A heated line could be installed if field work is to be extended into colder weather. Methods used for water supply and disposal are climate appropriate and are standard practice. Water source and sump will be monitored. Waste disposal by incineration and or transport is appropriate for remote site. These systems and their safe use will be documented in the camp safety procedure manual to be submitted to the WCB.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.
At the end of the 12 weeks of activities, the camp will be dismantled, tents and other equipment will be taken back to source. All waste materials will be burned or flown out to a municipal discharge. Holes and sump will be filled back. See Abandonment and Restoration Plan in appendix D.

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: _____

At this stage of the project, no baseline studies have been carried but many lake water analyses made for exploration purpose in 2003 could be use in the future.

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 – not on-line
- ✓ NWB - Interim Rules of Practice and Procedure for Public Hearings – not on-line

- ✓ 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 – N/A
- ✓ Canadian Council for Ministers of the Environment (CCME); Canadian Drinking Water Quality Guidelines, 1987 – For Sale Only – not available for download
- ✓ Public Health Act - Camp Sanitation Regulations
- ✓ Public Health Act - Water Supply Regulations
- ✓ *Territorial Lands Act* and *Territorial Land Use Regulations*; Updated 2000