EXPLORATION/ REMOTE CAMP
SUPPLEMENTARY QUESTIONNAIRE

Applicant: _____ **Licence No:** _____

(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Melodie Sammurtok Tel: **(867) 645 2444** Fax: **(867) 645 2443**
   (Shear Minerals Ltd.)
2. Project Manager: Katlyn McIntosh Tel: **(780) 435 0045** Fax: **(780) 989 0322**
   (Shear Minerals Ltd.)
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
   - ☐ Annual
   - ✔ Multi Year:

   If Multi-Year, indicate proposed schedule of on site activities
   Start: **2008** Completion: **2013**

CAMP CLASSIFICATION

6. Type of Camp
   - ☐ Mobile (self-propelled)
   - ☐ Temporary
   - ✔ Seasonally Occupied: **Exploration Camp**
   - ☐ Permanent
   - ☐ Other: _____

7. What is the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?
   Up to 26 geological personnel, 5 camp support staff, 3 helicopter pilots/1 engineer, and 5 drill personnel when required. Maximum total is 40 at one time when drilling

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

Not applicable.

CAMP LOCATION

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

The camp location was chosen with the assistance of the community of Chesterfield Inlet. Shear Minerals worked closely with the HTO and community members to find a lake that would provide clean potable water under ice conditions in proximity to where exploration was focused.

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.

Shear Minerals worked with the Chesterfield Inlet HTO to find potential lakes that would provide potable water under ice conditions. Shear Minerals then traveled to Chesterfield Inlet to meet with elders to choose a location on Josephine Lake to put the camp to avoid spawning areas and known fishing locations.

11. Is the camp or any aspect of the project located on:
The camp is located on Inuit Owned Surface Lands. Exploration is on both Crown and Inuit Owned Land.

✔ Crown Lands	Permit Number (s)/Expiry Date: **N2004C0026**
☐ Commissioners Lands	Permit Number (s)/Expiry Date: _____
✔ Inuit Owned Lands	Permit Number (s)/Expiry Date: **KVL302C265** **KVRW03F286**

12. Closest Communities (distance in km):
Rankin Inlet is located approximately 30 km and Chesterfield Inlet is approximately 60 km from the nearest boundary of the property.

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?
Yes. Shear Minerals Ltd. has conducted on-going community consultation and public information meetings since the start of the exploration program. Each year Shear travels to both communities to provide information on the upcoming field program and also in the fall/winter to discuss the results of the previous field program. The last meetings were held in May 2008.

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?
There are no anticipated impacts on traditional water use areas. Shear Minerals

collects water samples annually to ensure the continued quality of Josephine Lake.

PURPOSE OF THE CAMP

15.
- ✔ Mining (Exploration)
- ☐ 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?
All land-based drill cuttings are pumped to a sump which is either a natural depression or a dyke that is temporarily deployed, both of which trap the drill cuttings and allow the water to drain away. All lake-based drill cuttings will be collected and bagged then disposed of in sumps on land. These sumps are located a minimum of 31 metres from the normal high water mark of all water bodies.

20. Describe what will be done with drill water?
All land-based drilling fluids will be pumped to sumps to collect cuttings, allowing the water to drain into the surrounding landscape. All lake-based drilling fluids will be re-circulated and stored in tanks. Any waters that require disposal will be

pumped in to sumps as described previously.

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 moved to the camp to be mechanically split, sampled, stored and shipped off 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 see attached Spill Contingency Plan.

24. How many spill kits will be on site and where will they be located?
A number of spill kits will be on site including: one at the fuel storage location, one at the camp site, one at the drill site, one at the helicopter refueling area, and one at the generator.

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

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
Numerous small ponds and lakes are readily available for land-based drilling

27. Estimated demand: (based on max 40 people in camp)
- ✔ Domestic Use: **5 cubic metres/day** Water Source: **local camp lakes**
- ✔ Drilling Units: **50 cubic metres/drill/day** Water Source: **small lakes & ponds**
- ☐ 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:
Submersible pump with filtered intake.

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 camps, with the possibility of further sampling if necessary. Tests will be conducted with a field test kit and will be standard water examinations for various types of coliform bacteria.

30. Will drinking water be treated? How?
If necessary (depending on the test results), water will be chlorinated.

31. Will water be stored on site?
Yes, there will be tank(s) located at the campsite for domestic purposes (approx. 150-gallon tanks)

WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:
Please see attached environmental procedures plan

- ✔ Camp Sewage (blackwater)
  - incinerated or shipped off site
- ✔ Camp Greywater **320 gal/day**
  - sump
- ✔ Solid Waste **minimal**
  - incineration or shipped off site
- ✔ Bulky Items/Scrap Metal **minimal**
  - shipped off site
- ✔ Waste Oil/Hazardous Waste **minimal**
  - shipped off site
- ✔ Empty Barrels/Fuel Drums **variable**
  - shipped off site
- ☐ Other:

33. Please describe incineration system if used on site. What types of wastes will be incinerated?
There is an incinerator on site. Please refer to Appendix III in the Abandonment and Reclamation Plan for more information on the incinerator.

34. Where and how will non-combustible waste be disposed of ? If in a municipality in Nunavut, has authorization been granted?
All inert waste shipped off site will be disposed of at the appropriate municipal/city dump.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for sumps (if applicable).
2m x 2m x 1.2m sump, more than 100 m from surface water

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?
Visual inspections will be conducted on a daily basis to ensure that there is no leachate coming from the sump.

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?
Please see attached "Spill Contingency Plan".

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.
Please see attached "Environmental Procedure Plans" and "Abandonment & Restoration Plans".

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: _____

Please see attached bibliography

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.