**EXPLORATION/ REMOTE CAMP**
**SUPPLEMENTARY QUESTIONNAIRE**

**Applicant:** _____ **Licence No:** _____

(For NWB Use Only)

## ADMINISTRATIVE INFORMATION

1. Environment Manager: Allison Armstrong (Shear Minerals Ltd.) Tel: **(780) 435 0045** Fax: **(780) 989 0322**
2. Project Manager: Jennifer Burgess (Shear Minerals Ltd.) Tel: **(780) 435 0045** Fax: **(780) 989 0322**
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: **February 2005** Completion: **November 2008**

## 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 36 at one time during peak drilling**

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

Josephine Lake is a char lake that has been used both historically and currently by community members from Rankin Inlet and Chesterfield Inlet. Shear Minerals worked closely with the

community of Chesterfield Inlet in the selection of an appropriate camp location after concerns were raised regarding the originally proposed location.

## CAMP LOCATION

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

Camp will be located close to deep water for use in spring and near proximity to an esker for use as airstrip in the spring.

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.

Chosen based on the above requirements with the assistance from a community member from Rankin Inlet. They provided the Traditional Knowledge of the area with respect to snow drifting, overland run-off, wildlife and local use.

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** (July 15, 2006) |
| ☐ Commissioners Lands | Permit Number (s)/Expiry Date: |
| ✔ Inuit Owned Lands | Permit Number (s)/Expiry Date: **KVL302C265** (May, 21, 2005); **KVRW03F286** (May 21, 2005) |

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.**

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 (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.**

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 recirculated 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 nearest camp to be mechanically split, sampled and stored.**

## SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? 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 on the helicopter 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 see attached Environmental Procedures Plan**

## WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
**Numerous small ponds and lakes are readily available for land-based drilling these cannot be identified at this time as many of the lakes and ponds freeze to the bottom or nearly to the bottom during winter. Under these conditions, water will be hauled with the drill in a tank. Water source locations will be identified in the annual report each year. A map of potential drill targets is also attached. Water for the camp will come from Josephine Lake.**

27. Estimated demand: (based on max 36 people in camp)
- ✔ Domestic Use: **5,000 l/day** Water Source: **Josephine Lake**
- ✔ Drilling Units: **50,000 l/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?
**Modified 45 gallon drum**

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?
**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?
**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.