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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

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

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**Applicant:**
**Skybridge Development Corporation Licence No: 2BE-BLU0809** (For NWB Use Only)

## ADMINISTRATIVE INFORMATION

1. Environment Manager: Executive Vice President, Mr. Gord Yule
   Tel: 807-766-3384, Fax: 807-346-0100
   Email: gyule@skybridgedevelopment.com

2. Project Manager: Same as above

3. Does the applicant hold the necessary property rights? Yes, through Ewan Downie, Chairman (Crown mining rights through INAC)

4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization. N/A

5. Duration of the Project
   - ❑ One year or less Start and completion dates: _____
   - ✓ Multi Year: 2008 – 2012

   If Multi-Year indicate proposed schedule of on site activities:

   Drilling, Reconnaissance Prospecting, Survey Grids & Geophysical Surveys: May 2008 - November 30, 2008 & March 15, 2009 – December 1, 2009.

## CAMP CLASSIFICATION

6. Type of Camp

   - ❑ Mobile (self-propelled)
   - ❑ Temporary
   - ✓ Seasonally Occupied: April - December
   - ❑ Permanent
   - ❑ Other:_____

7. What is the design, maximum and expected average population of the camp?

   A new camp is proposed to be erected for this phase of activity. Possibly 5 -14'x16' sleep tents, 1-office tent, 1-"dry" tent, and one 14'x32'kitchen tent will be set up on the Sage esker. As well, emergency shelter, a tent with emergency heat, food supplies and sleeping bags will be erected close to the drill sites as a safety haven in the event poor weather prevents access by helicopter when a drill crew is on site. All transportation will be from Sage Camp to work site using aircraft from Great Slave Helicopters.

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

   Site was explored briefly by Texasgulf/Kidd Creek Mines in 1982. Left relatively undisturbed with the exception of local trenching in bedrock for exploratory purposes.

**CAMP LOCATION**

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

   The coordinates of the potential camp will be: Lat. 65º 14' 18" Long. 106º 36' 07", survey grids as shown in Areas I, II, III, IV have been included – "X" marks the temporary location of the safety tent, temporary camp and landing strip will utilize the Sage esker, will be located southeast of Sage Lake (circled)

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.

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: BB-11, License KTL C001, Expiry: May 11, 2010 |

12. Closest Communities (direction and distance in km): Bathurst Inlet at about 190 km to the NNW

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work? Only at arms length through the Nunavut Water Board screening process.

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?

Area II lies on an unnamed lake large enough to host lake trout, white fish and whatever other species may occur (grayling?)

An old caribou skeleton at the site to attests to the presence of caribou; no trails were seen from the helicopter and it is concluded that this is not a major migration route or calving ground. According to maps of the Beverly and Qamanirjuaq Caribou Management Board our activities lie just north west of the outer fringe of the range of the Beverly Herd. According to NWT Wildlife Management maps (1996-2003) our activities lie within the range of the Bathurst Herd but east of the south easterly intent of the calving grounds

Grizzly bears are known to be in the area; no musk ox were observed on brief visits, but are reported. Very few (small) ground nesting birds were seen, and no larger birds except for snow geese at 500-1000m above mean terrain heading south in flocks of 20-<80 birds (September migration).

There are no local (several km) eskers and no local communities. We are not aware of any historical/archaeological sites upon which our activities will have an impact and we expect no impact on local waters.

**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: Copper/Molybdenum

**DRILLING INFORMATION**

Drilling performed by Major International Drilling out of Yellowknife, NWT.

18. Drilling Activities

- ✓ Land Based drilling
- ✓ Drilling on ice

19. Describe what will be done with drill cuttings?

The drill return will be into a large settling tank to allow the cuttings to settle out. Cuttings (sludge) will be deposited in a local depression in the glacial till: as these are similar to the till in nature they will blend into the till in the first few heavy rains and the first spring thaw.

20. Describe what will be done with drill water?

Water from the settling tanks is in a "closed" recirculation circuit and is returned to the hole: at down times the overflow will be pumped to a local, natural depression (separate from the above 20.) where local soil will act as a final filter and purifier in which the water will stay or from which it will eventually find its way back into the water table.

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.

A list of the drill additive types that may be used by Major Drilling are:

| **Brand Name** | **Constituent** |
|---|---|
| Poly-Drill O.B.X. | Liquid Polymer |
| Poly-Drill 133-X | Liquid Anionic Polymer |
| Poly-Drill 1330 | Liquid Anionic Polymer |
| Westcoast Drilling Supplies | Linseed Soap |
| Peladow | Calcium Chloride salt |

MSDS sheets are contained within the Spill Contingency Plan attached to this application form. All substances are non-toxic and bio-degradable.

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

Drill core will be flown to the proposed camp for logging and mineralized sections will be split by core splitter, or diamond saw; half of this will be sent to an assay lab. and the remainder stored with the unsplit sections of drill core at the proposed camp site on the property.

**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 drill site spill contingency plan is appended under separate cover.

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

    3 spill kits: 1 at the fuel cache at Sage Lake., 1 at the Core Shack at Sage Lake and 1 at the drill site(s) at the Blue Caribou Project.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.

    Not more than 100 40gal (205 l) drums of diesel fuel and JetB at any given time (including empties), 1 ton of Peladow and three containers each of the other chemicals listed under section 22. MSDS sheets are attached with spill contingency plan.

**WATER SUPPLY AND TREATMENT**

26. Describe the location of water sources.

    Drill program:

    Area I - The water source is a small banana-shaped lake colloquially known as 'Elbow Lake" at the east end of the grid at 65º 15'N, 106° 35'W for drilling at the east end of Area 1 and a centrally located lake known as colloquially as "Yonge and Bloor" Lake in the middle of the grid for drilling on the west portion of the Area 1 grid.
    Area II – local ponds/ lakes proximal to drill setup.
    Area IV – local ponds/lakes proximal to drill setup.

    Camp: The water source will be Sage Lake.

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

    - ☐ Domestic Use: Water Source: _____
    - ✓ Drilling: Camp, plus drilling in Areas I, II, III, IV consecutively <90$m^3$/day
      Water Source: Area I – Elbow Lake/Yonge and Bloor Lake
      Area II & IV – Local ponds/lakes
      Camp – Sage Lake
    - ☐ 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:

Water intake for drilling & camp operations will have a supply pump equipped with a foot valve housing which in turn is "encased" in a fine brass mesh screen to prevent the ingestion of small fish and any solids or weeds that might interfere with the proper operation of the pump.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?
    Bottled water will be carried in daily with crew. If needed, water quality tests will be done in cooperation and within the guidelines of the local health unit.

30. Will drinking water be treated? How?
    Boiled if required.

31. Will water be stored on site?
    No: Water will be taken from the lake on an as needed basis.

**WASTE TREATMENT AND DISPOSAL**

32. Please describe incineration system if used on site. What types of wastes will be incinerated?
    - ✓ Camp Sewage (blackwater): Drillers washroom needs will be addressed with the use of a portable compost toilet set up in the heated emergency tent. Unit will be checked and cleaned regularly as needed. Human waste to be properly packed and removed to proposed camp for disposal according to existing permits. Camp toilet facilities will be outhouses. Wastes will be buried.
    - ✓ Camp Greywater: Greywater will drain into trenches for settling; upon completion, trenches will be filled in.
    - ✓ Solid Waste: Solid waste will consist of worn out drill steel, empty fuel drums, empty chemical containers, fibrene bags (salt), oil cans, tin cans, water and pop bottles and cans, etc. All will be flown ( by helicopter) to the proposed camp – what may allowably be incinerated will be, the remainder will be taken to Yellowknife on back haul flights and disposed of in the local landfill if applicable or by the supplier.
    - ✓ Bulky Items/Scrap Metal: Drill equipment and drums to be handled as per preceding and returned to Major Drilling, and the oil supplier in Yellowknife
    - ✓ Waste Oil/Hazardous Waste: Returned to Yellowknife and to the supplier for appropriate disposal or by Discovery Mining Services (Expediter) who send it to a hazardous waste disposal handler in Edmonton.
    - ✓ Empty Barrels/Fuel Drums: See preceding
    - ❑ Other:

33. Please describe incineration system if used on site. What types of wastes will be incinerated?
    No incineration at drill site. Any combustible refuse at proposed camp will be burnt pursuant to permit authorizations.

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted? Returned to Yellowknife to the attention of Discovery Mining Services who will take appropriate action.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable). Estimated 90% of camp water, 30 $l^3$ /day, put into sump located on the ester <100m from the water source.

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?
    Leachate monitoring will be done, and if present it will be sampled and analyzed weekly, following local/territorial guidelines.

**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?

    The drill site supply and disposal methods have been used very successfully in Nunavut at High Lake (Wolfden) and Hackett River (Sabina) under the supervision of our long-term consultant, I. Downie.

**ABANDONMENT AND RESTORATION**

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

    The drill, all ancillary equipment(drill shack, steel, pumps, tanks, etc.) and any remaining debris will be completely removed by helicopter to the proposed camp and on to Yellowknife (or to another job) and the surface, which will have undergone little or NO damage from the operations (the area of activity consists of broken-frost heaved- rock in large measure. It is noted that that most drill sites will be on snow or rocky ground with drill installed into place by helicopter with long line.
    The tent camp facility will be dismantled, and returned to Yellowknife. Any combustible materials will be incinerated or returned to Yellowknife. All other recyclable materials will be returned to Yellowknife.

**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: N/A – No baseline data has been established due to the early development of the project. Should the project develop, an environmental baseline sampling program will be implemented.

**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