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## EXPLORATION/REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

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**Applicant: Starfield Resources**

**Licence No: NWB2FER0305**

(For NWB Use Only)

### ADMINISTRATIVE INFORMATION

1. **Environment Manager: John Nicholson Tel: 604-608-0400 Fax: 604-608-0400 E-mail:**  
[john\\_nicholson@telus.net](mailto:john_nicholson@telus.net) / [sfield@skycomip.com](mailto:sfield@skycomip.com)
2. **Project Manager: John A. Nicholson Tel: 604-608-0400 Fax: 604-608-0344 E-mail:**  
[john\\_nicholson@telus.net](mailto:john_nicholson@telus.net) / [sfield@skycomip.com](mailto:sfield@skycomip.com)
3. Does the applicant hold the necessary property rights? **Yes. Currently all claims are held by Starfield Resources. Ownership is 100%**
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. All claims are currently held in the name of Starfield Resources**
5. Duration of the Project

☐ Annual

☒ Multi Year:

If Multi-Year indicate proposed schedule of on site activities

**Start: April 2005 Completion: April 2007**

### CAMP CLASSIFICATION

6. Type of Camp
  - ☐ Mobile (self-propelled)
  - ☐ Temporary
  - ☐ Seasonally Occupied: \_\_\_\_\_
  - ☐ Permanent
  - ☒ **Other: Presently leasing Ferguson Lake Fishing Lodge**



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?

**-Ferguson Lake Fishing Lodge has been designed to accommodate up to 30 people. Maximum amount of Starfield Personnel on site at any given time would be 15-20 people.**

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

**-1950: Camp brought in from Churchill Manitoba and constructed by INCO.**

**-1950-1953: Camp used by INCO for Exploration Purposes on the Ferguson Lake Project and surrounding areas.**

**-1953-1984: Camp remained on care and maintenance by INCO.**

**-1984-1986: Camp maintained by Eco-Tour group who operated the camp.**

**-1986: Camp purchased by Keith Sharp and moved from mainland to present site.**

**-1986-1996: Camp operated as Ferguson Lake Lodge-Fishing Camp.**

**-1996-1999: Camp remained dormant.**

**-1999-present: Starfield Resources entered into a lease agreement with Keith Sharp to lease the camp and the facilities for the purposes of exploration on the Ferguson Lake Project.**

## CAMP LOCATION

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

**-Camp is located on NTS Map Sheet 65 I/15**

**Latitude 62° 52.64"N      Longitude 96° 50.72"W**  
**UTM 609340N/6972828E NAD 83**



**-Camp is presently located on an island within the confines of Ferguson Lake bound on all sides by water. Camp is located approximately 600-3000 metres from water at an elevation of 175 metres above sea level. Camp is located on good rocky ground with some sandy sections.**



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.

**-Not Applicable**

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

|  |                                      |
|--|--------------------------------------|
| <input type="checkbox"/> Crown Lands                   | Permit Number (s)/Expiry Date: _____ |
| <input type="checkbox"/> Commissioners Lands           | Permit Number (s)/Expiry Date: _____ |
| <input checked="" type="checkbox"/> <b>Inuit Lands</b> | Permit Number (s)/Expiry Date: _____ |

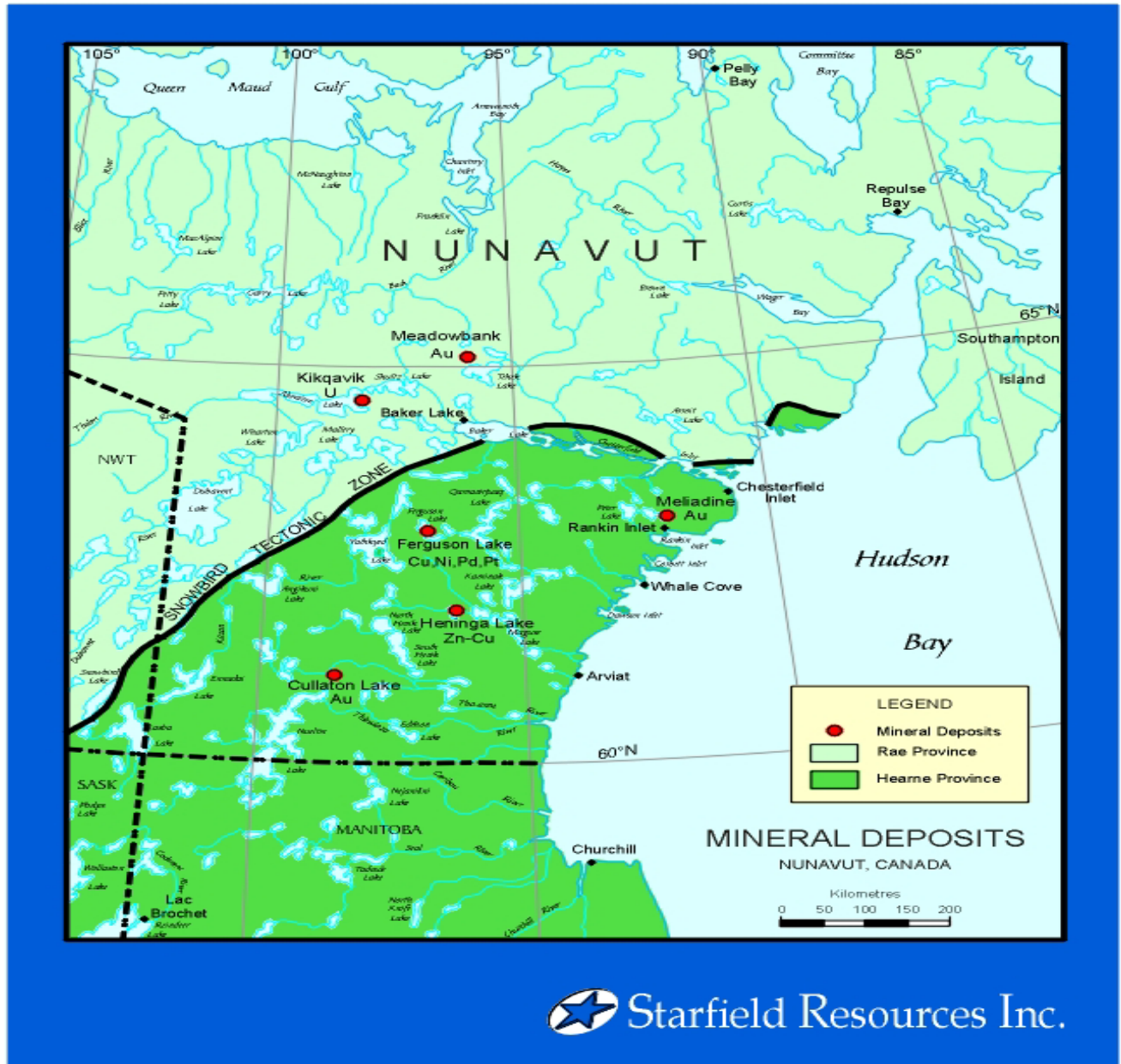
**KVL399C150-April 30, 2005**  
**KVL103B303-March 23, 2005**

**Ferguson Lake Lodge is located on KIA administered land. Lodge is on land under lease number #3372 (personal communiqué Keith Sharp)**



12. Closest Communities (distance in km):

|               |                |
|---------------|----------------|
| -Baker Lake   | 160 kilometers |
| -Rankin Inlet | 241 kilometers |
| -Whale Cove   | 250 kilometers |
| -Arviat       | 241 kilometers |



13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

**-Work on the site has been ongoing since 1999. Discussions with the various KIA authorities have been an on going 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?

**-Project will not have an impact on traditional water use areas as water drainage flows to Hudson Bay. Closet community to outflow is Arviat, located approximately 300 kilometers downstream.**

**-Project area does not impact on local fish habitats.**

**-Project area does not impact on local wildlife habitats.**

**-Project Area is outside of designated Caribou calving grounds which are located approximately 40 kilometers to the east of the present day Ferguson Lake Lodge site in the Kaminurak Lake area. During Caribou migration, operations are curtailed.**

#### **PURPOSE OF THE CAMP**

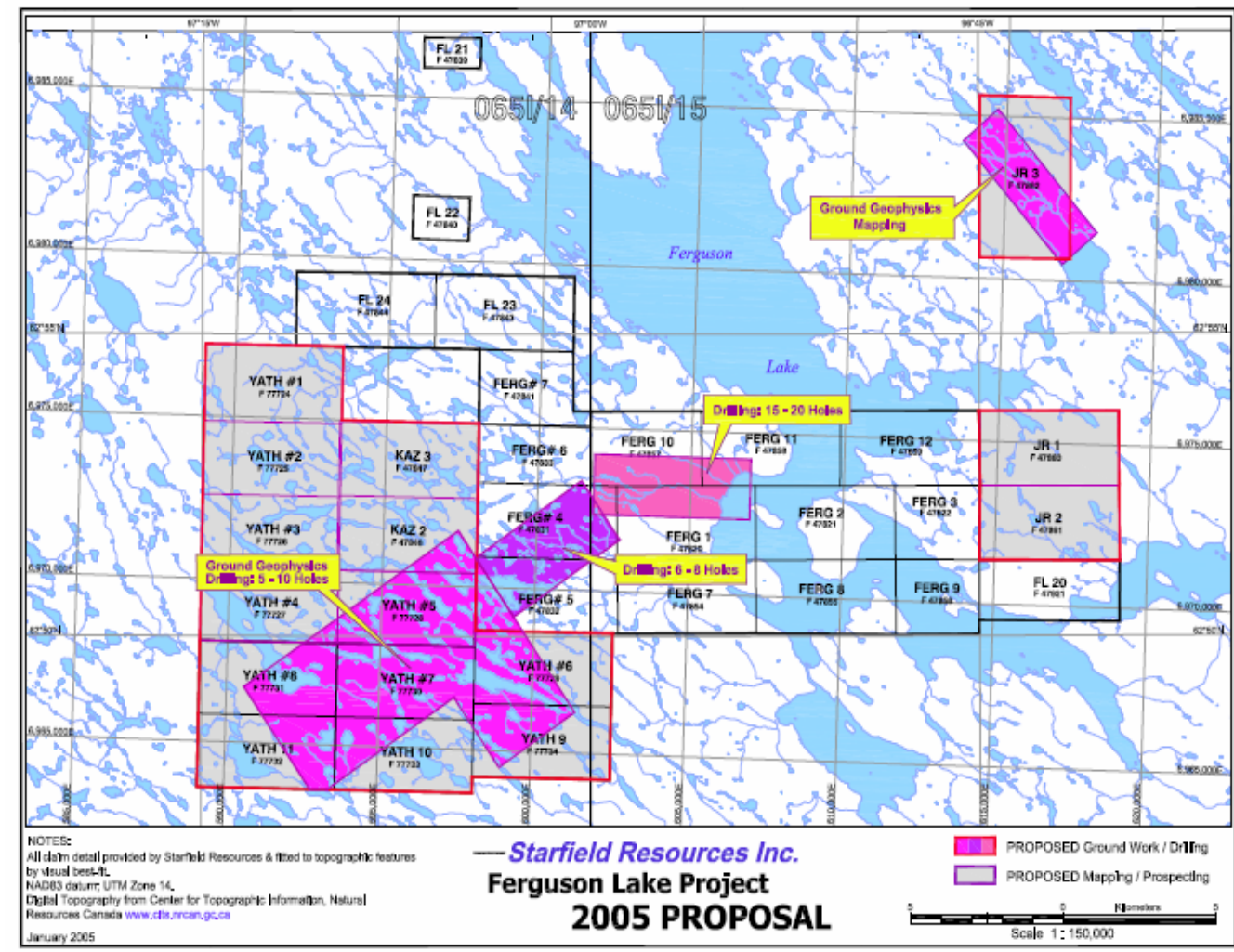
15. **X Mining-Camp was originally set up as a Fishing Camp. Since 1999 camp has been leased.**

☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)

(Omit questions # 16 to 21)

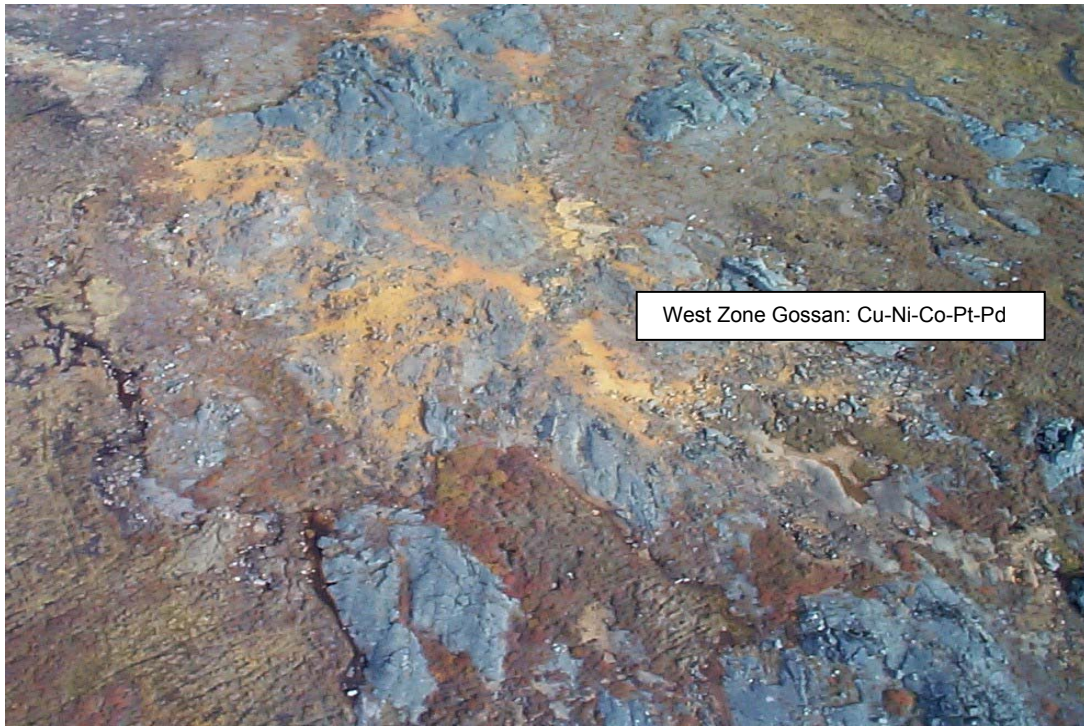
☐ Other \_\_\_\_\_ (Omit questions # 16 to 22)

16. ☐ Preliminary site visit  
**X Prospecting**  
**X Geological mapping**  
**X Geophysical survey**  
**X Diamond drilling**  
☐ Reverse circulation drilling  
☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)  
☐ Other: \_\_\_\_\_



17. Type of deposit:

- ☐ Lead Zinc
- ☐ Diamond
- ☐ Gold
- ☐ Uranium
- ☒ **Other: Cu, Ni, Co, Pt, Pd,**



## DRILLING INFORMATION

### 18. Drilling Activities

☒ **Land Based drilling**

☐ Drilling on ice

### 19. Describe what will be done with drill cuttings?

**-Drill cuttings at present are being collected in local sumps. Once cuttings are dried, cuttings are bagged and removed from site by helicopter.**

### 20. Describe what will be done with drill water?

**-Drill water is presently being circulated and collected into natural sumps. Filtration of drill water is through onsite filtrations in drill and through natural sumps. Sludges are then removed offsite helicopter**

### 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.

**-Drill additives to be used are as follows:**

**-Linseed Soap**

**-Poly Drill-133X**

**-Poly Drill-CTTP**

**-Matex-Ultravis**

**-Matex-Torqless**



**-(MSDS Sheets: as per previous submission)**

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

**-At present core testing is confined to Core Logging and Core Sawing. All samples are sent off site for analyses.**



## **SPILL CONTINGENCY PLANNING**

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

**-At present spill contingency plan consists of Spill Kits at each drill and also Spill Kits at fuel sites.**

**All drills have been equipped with small double walled TIDY TANKS which are contained within a metal trough. All drills as a precaution have blue matting placed under drill motors, and hydraulic tanks to catch any fluids.**

**All fuel is transported to drill by 205 Liter drums. Drums are inspected for leaks and re-sealed. All drums upon arrival at drill site are placed on a wooden deck with blue**

**absorbent matting under the barrels. Fuel when used is pumped by electric pump to TIDY TANKS.**

**In the event of a fuel spill, plans call for the immediate notification of proper authorities at 1-867-920-8130 and the notification of WCB in Rankin Inlet at 1-867-645-5601.**

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

**-A total of 5 Spill Kits are on site. Spill kits are presently in place at each drill (3), fuel supply area on the airstrip (1) and at the Heli-pad (1).**

**-As well, all fuel barrels used for oil stoves have blue absorbent underlay for any fuel spillage. All fuel tanks, diesel engines and pumps at drill have blue absorbent underlay.**

**-Camp Generator and fueling station for Four Trax has blue absorbent matting for any fuel spillage.**

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

### **Fuel**

**The method of fuel storage is confined to 205L sealed barrels. All fuels (P-50, Jet B, Gasoline and Propane) are stored at the Ferguson Lake Airstrip.**

**The airstrip is located in the middle of the island and the closet water is 2000 metres away.**

**All of the fuel is stored in 100-barrel allotments and are all stored on graveled surfaces.**

**Fuel that will be stored on site is as follows:**

- |                              |                                |
|------------------------------|--------------------------------|
| <b>- P-50 Diesel Motive</b>  | <b>(700 barrels)</b>           |
| <b>- Jet B Aviation Fuel</b> | <b>(250 barrels)</b>           |
| <b>- Gasoline</b>            | <b>(10 barrels)</b>            |
| <b>- Propane</b>             | <b>(100-100 pound bottles)</b> |

**(MSDS Sheets: as per previous submission)**



Bulk Hauling Fuel to Ferguson Lake using Skyward Cessna Caravan  
Note Camp in background.

### **Chemicals**

**Chemicals that will be stored on site will consist entirely of household cleaners and detergents. All chemicals and detergents are stored in Lodge Area. Quantities that would exist on site at any given time would be a maximum of 12 bottles and or containers each of the following:**

- Fantastic**
- Windex**
- Tilex**
- Comet**
- Orange Hand Cleaner**
- Mr. Clean Floor Cleaner**

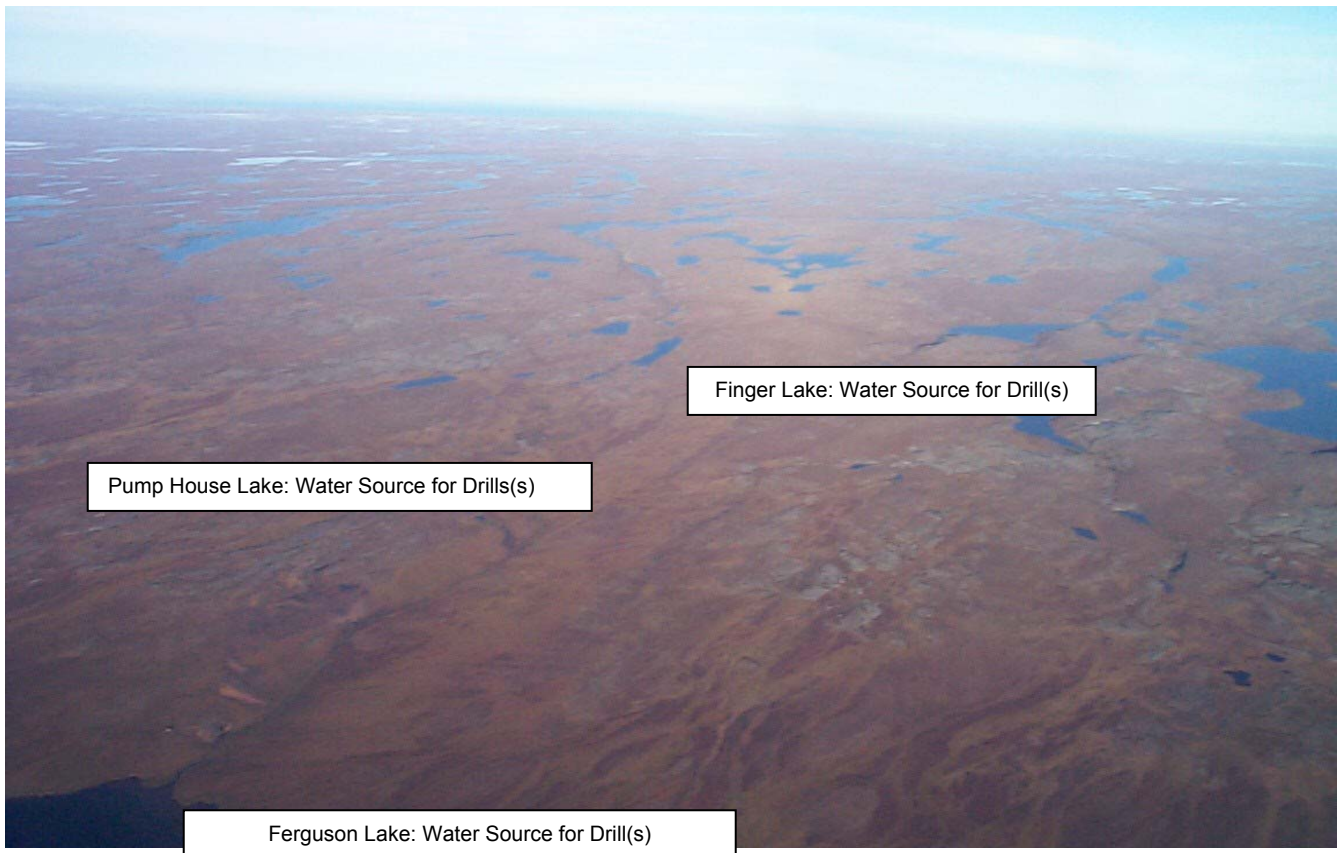
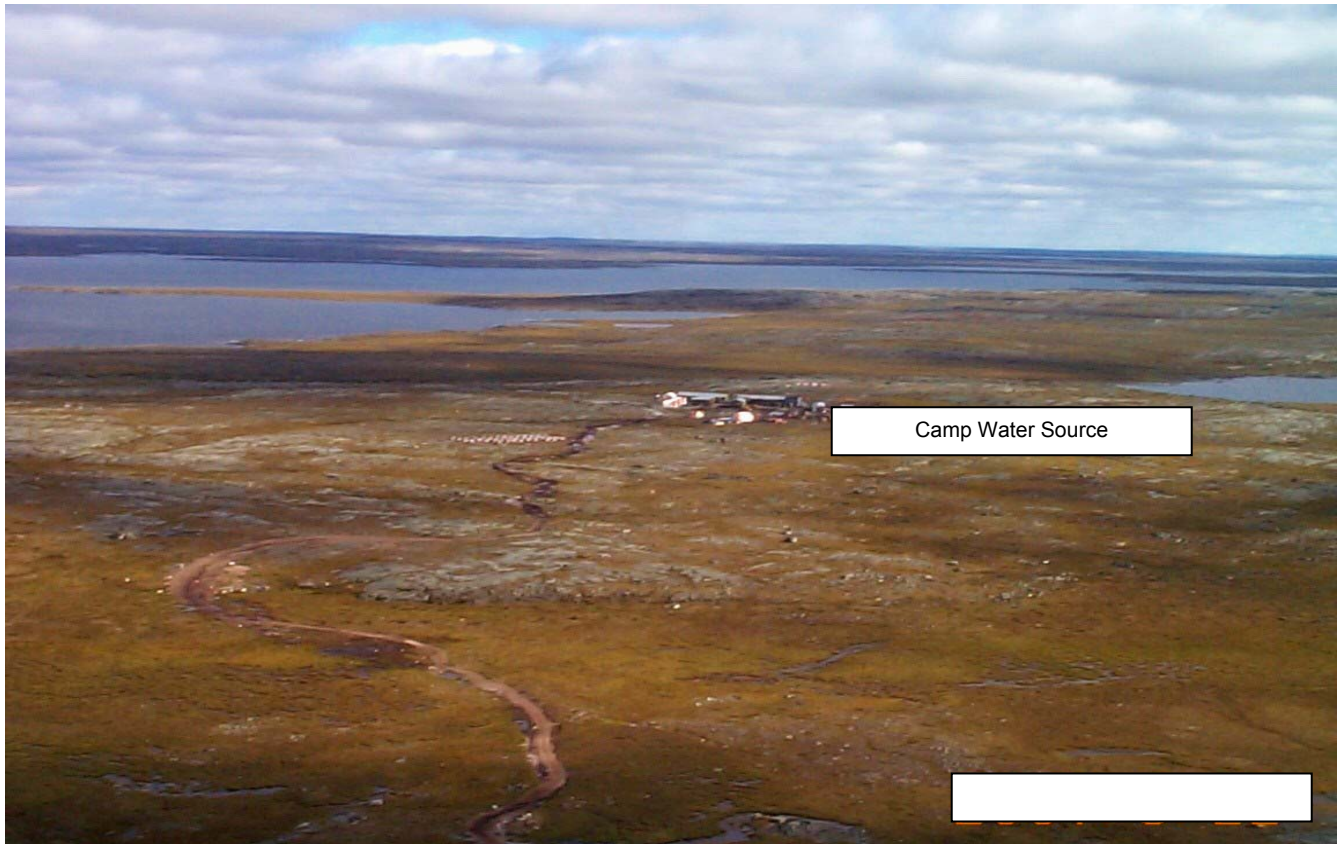
***( MSDS Sheets: as per previous submission )***

### **WATER SUPPLY AND TREATMENT**

26. Describe the location of water sources.

- Water source for camp is approximately 600 metres from camp.**







27. Estimated demand (in L/day \* person):

**X Domestic Use: 48L/day/person      Water Source: 720L/day**  
**X Drilling Units: 0.4-0.5L/Sec      Water Source: 34,560-43,200L/day(24hrs)**  
☐ 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 intake for camp during summer months utilizes an electrical Submersible Jacuzzi Style Water Pump. During winter months a diesel pump equipped with a coil stove heater, pumps water approximately 600 metres up a 175-metre lift into plastic storage tanks.**

**All water pumps are equipped with a mesh screen to prevent entrapment of fish.**

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?

**-No, drinking water will not be monitored. At present all drinking water is bottled water brought in from outside sources.**

30. Will drinking water be treated? How?

**-Drinking water will not be treated. Water that is used in camp is used for washing and cleaning purposes only.**

31. Will water be stored on site?

**-Water at present is being stored on site in 9 - 400 gallon plastic water tanks. Water Tanks are FDA approved for potable water use. Tanks are stored in a heated building. Water stored also is used for Fire Suppression should the need arise.**

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## WASTE TREATMENT AND DISPOSAL

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

**X      Camp Sewage (blackwater)**

**-All camp sewage is presently stored in STORMBURN Wilderness Propane Incinerator Toilet Units. Each unit is capable of holding 20 Liters of raw sewage. Raw sewage is burnt daily in incinerator units. Ash is then bagged and re burnt in garbage incinerator unit. All garbage is then flown out monthly on back hauls to either Baker Lake and or Thompson, Manitoba.**

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**X      Camp Greywater**

**-Grey water consisting of shower water and wash water is piped approximately 30 metres in a heated Grey Water line to an isolated sump area.**

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**X      Solid Waste**

**-All solid waste is burnt daily in STORMBURN Wilderness Propane Incinerator Toilet Units. Ash form units is then collected and re-burnt in Camp Incinerator Unit. Ashes are then collected in barrels and flown out on back haul flights to either Baker Lake and or Thompson Manitoba.**

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**X      Bulky Items/Scrap Metal**

**-At present there are no Bulky Items**  
**-All scrap metal (tin cans etc) is burnt in incinerator unit. Ashes and burnt cans are then collected and flown out of camp to landfill sites in either Rankin Inlet and or Baker Lake.**  
**-Larger bulkier pieces such as I-Beams, drill rods, drill steel are re-used and or sent back to Major-Midwest Drilling in Thompson Manitoba for disposal.**

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**X      Waste Oil/Hazardous Waste**

**-All Waste Oil is burnt in incinerator.**  
**-At present there are no Hazardous Waste products on site.**

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**X      Empty Barrels/Fuel Drums**

**-All Empty Barrels/Fuel Drums are presently re-used for additional fuel storage. Any barrels unfit for re-use are used as garbage barrels and are used to back haul garbage out to landfill sites in either Baker Lake or Thompson.**  
**○ Other:**

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33. Please describe incineration system if used on site. What types of wastes will be incinerated?

**-Incineration unit that is used on site is of steel fabrication with diesel and or propane being used as the incineratory combustant.**

**-Waste material that will be incinerated will include but not limited to:**

**Wood products**  
**Waste oil**

**Kitchen refuge**  
**General camp refuge**

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

**-All non-combustible material is drill related and is currently sent back to Thompson, Manitoba to be disposed of by Major-Midwest Drilling.**

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

**-Location of Grey water sump is approximately 30 metres from camp. Dimension of natural sump is approximately 12m x 12m. Depth is unknown as it is a natural sump. Sump is located approximately 600 metres and 75 metres vertically from the nearest body of water.**

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?

**-At present, no leachate monitoring is being done.**

**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?

**Water Supply has been utilized for the past 5 years in extreme winter conditions. O&M problems that occur are freezing water lines. Solutions to this have been rectified by putting inline heaters in place to “super heat” the water at source and then pumped to holding tanks.**

**Waste treatment system has also has been utilized for the past 5 years in extreme cold conditions. O&M problems that arise are propane tanks freezing. Solutions to this have been to isolate tanks into a semi-heated ventilated room, and utilization of battery blankets to keep propane warm**

**Contingency for water is hauling water on Skidoo and or in water storage tanks in water slop behind tractor.**

**Contingency for waste treatment consists of Portable Sanitation Stations. Waste is removed once a day and burnt in Garbage Incinerator.**

**ABANDONMENT AND RESTORATION**

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

**At present, Ferguson Lake Lodge is a leased site. Reclamation of site by Starfield personal consists of trail remediation, burning of old refuse and general upkeep of camp facilities.**

**Upon termination of lease, any temporary structures built will be removed. Wood products brought in will be burnt and waste will be removed.**

**All drill sites are cleaned of refuse. All garbage is removed from site and taken back to camp and burnt in Garbage Incinerator.**

**All drilling equipment, and equipment on site will be removed via Hercules C-130 aircraft back to Thompson Manitoba (winter months) and or via barge out of Rankin during shipping season (summer)**

**All barrels for fuel storage will be removed back to Churchill for deposit return.**

## **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:
- Wildlife studies as per previous submission.**

**-Starfield personal on a daily basis are currently performing weather observations.**

## **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.