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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

# EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

**Applicant: _Diamonds North Resources Ltd___Licence No: _____**
(For NWB Use Only)

## ADMINISTRATIVE INFORMATION

1. Environment Manager: **Graham Gill** Tel:**604 689 2010** Fax: **604 484 7143**
E-mail:**ggill@diamondsnorthresources.com**

2. Project Manager: **as above** Tel: **as above** Fax: **as above** E-mail: **as above**

3. Does the applicant hold the necessary property rights? **Yes. All claims currently in the name of Diamonds North Resources Ltd.**

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
   [x] Multi Year:
   If Multi-Year indicate proposed schedule of on site activities
   Start: **April 2006** Completion: **April 2011**

## CAMP CLASSIFICATION

6. Type of Camp
   [ ] Mobile (self-propelled)
   [x] Temporary
   [x] Seasonally Occupied: **3-5 months per year**
   [ ] 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?

   **Camp will be designed to accommodate 15-20 people comfortably but have the capacity to house 25 in the case of crew overlap and visitors.**

8. Provide history of the site if it has been used in the past.
   **Camp sites were used during the 2002 through 2005 field seasons by Diamonds North personnel. Site not used by others previously.**

## CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.
**Camp locations are: 1) situated on the western shores of the north flowing Tuktu River along a north-south trending esker. Coordinates = 70° 48.5'N 109° 10'W. The second camp site is located along the southern shore of a large lake to the south of the former camp and will only be used in the spring portion of the program. Coordinates = 70° 17'N 109° 05'W. These areas are not located in an area designated as a special habitat zone.**

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.
**Camp locations were selected based on proximity to potable water, vicinity of eskers for landing strip used to move people, gear, for safety reasons and proximity to work areas. No obvious signs that these sites were previously used. Advice was not solicited from the Regional Inuit Association Manager. Sites marked on map(s) provided.**

11. Is the camp or any aspect of the project located on:
[**x**] Crown Lands Permit Number (s)/Expiry Date: **N2005C0026/July 26, 2007**
[ ] Commissioners Lands Permit Number (s)/Expiry Date: _____
[**x**] Inuit Owned Lands Permit Number (s)/Expiry Date: **KTL305F010/April 14, 2006**

12. Closest Communities (distance in km):
**Cambridge Bay, Nunavut is located approximately 250 kms to the southeast of camp.**

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?
**Diamonds North presented the 2003 project results and proposed 2004 program to the Hamlet Council, the public and a representative of NIRB in Cambridge Bay on November 17 and 18, 2003. A meeting with the Charlie Evalik of the KIA was also conducted in March 2005 to discuss 2004 results and plans for 2005. A CD containing a Powerpoint presentation of the 2005 proposed work was also provided to NIRB in March of 2005. Public meetings and communications with the Olokhaktomiut Hunters and Trappers Committee in Holman has been ongoing since 2002. These meetings and updates to the communities will continue as long as the project remains active.**
**As this program is a continuation of several years of work all contractor companies in Cambridge Bay and Holman are well aware of our upcoming work program.**

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. The remoteness of the area is such that there will be no effect on traditional water use areas used by the local community(ies). As stated in the Water Licence Renewal application the company has various mitigation measures in place that will minimize and/or negate any impacts to local fish or wildlife habitats.**

## PURPOSE OF THE CAMP

15. **X**○ Mining **Mining Exploration <u>NOT</u> Mining**
○ 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)
**X**○ Other: **Regional till sampling/airborne magnetic surveying**

17. Type of deposit:
○ Lead Zinc
**X**○ Diamond
○ Gold
○ Uranium
○ Other: _____

## DRILLING INFORMATION

18. Drilling Activities
**X**○ Land Based drilling
**X**○ Drilling on ice (**Minimal – 5 of 20 holes)**

19. Describe what will be done with drill cuttings?
**Cuttings will be directed/pumped into a topographic low and contained in a manner to prevent transport into any water body. A typical 100 meter long hole will only create 0.24 cubic meters of cuttings. Any cuttings returned while drilling on-ice will not be left on ice but will also be pumped to shore with the use of a Poly-drill system.**

20. Describe what will be done with drill water?
**Drill water will be contained in a hand dug sump or natural depression whereby particulate matter can settle out or be filtered as necessary to prevent transport into any water body.**

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 are provided as attachments.**

22. Will any core testing be done on site? Describe.
**No.**

## SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review.
**Yes. Plan provided as attachment. Previously screened and accepted by NWB/NIRB.**

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

**Spill kits are placed at each fuel cache, at the drill site and at camp.**

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

**Types of fuel: Diesel, Jet-A, Gasoline, Propane**
**Quantity: 100, 250, 4, 12**
**Fuel stored in 45 gallon drums lying flat on the ground in areas of higher relief (eskers) and at least 30 meters from high water mark of any water body. All caches are temporary as per our current Registration of Storage Tank Systems for Petroleum Products and Allied Petroleum Products on Federal Land attached to our current Land Use Permit. The main fuel cache at the camp site is contained within an Insta-Berm system. (See photo attached).**

## WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

**Precise drill locations not known as this time. All drill water will be drawn from lakes.**
**Camp water use from Tuktu River.**

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

**X**○ Domestic Use: 6**0 liters per person per day** Water Source: **Tuktu River**
**X**○ Drilling Units: **40 liters per minute while drill is operating. At 40 litres/minute and drill operating 16 hours/day = 38,400 litres (38.4 cubic metres)/day.** Water Source: **Lakes**
○ 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:

**Small Honda water pump. Water intake equipped with screen of sufficient fine mesh as to not allow the entry of fish.**

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

**Drinking water quality will not be monitored. Water source has been used for 4 years of operations with-incident. See water test reports by RWED(NWT).**

30. Will drinking water be treated? How?

**Unnecessary.**

31. Will water be stored on site?

**Only in one or two 250 gallon tanks to prevent freezing.**

## WASTE TREATMENT AND DISPOSAL

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

○ Camp Sewage (blackwater)

**Latrine to be limed regularly and buried when program is complete.**

○ Camp Greywater

**Water consumption estimated to be 60 liters per person per day. Greywater to be confined to pits/sumps to prevent runoff into original source.**

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○ Solid Waste

**Burnable solid waste will be burned in a vented, base-fuel feed barrel; non-burnable material and any hazardous waste and used oil will be backhauled to an approved disposal site arranged by the contracted expediting company. All materials will be removed upon camp shutdown.**

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○ Bulky Items/Scrap Metal

**All materials to be backhauled to Cambridge Bay and deposited in an approved disposal site.**

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○ Waste Oil/Hazardous Waste

**Backhauled to an approved disposal site arranged by the contracted expediting company.**

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○ Empty Barrels/Fuel Drums

**Backhauled to Cambridge Bay for re-use or crushing and then disposal at an approved disposal site.**

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○ Other:

**None.**

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33. Please describe incineration system if used on site. What types of wastes will be incinerated?
**Vented, base-fuel feed barrel to be used to incinerate burnable solid waste only.**

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?
**Non-combustible waste to be backhauled to Cambridge Bay and disposed of in an approved disposal site arranged by the contracted expediting company.**

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for sumps (if applicable).
**Camp sump constructed near to the kitchen and dry tents. Hand dug sump dimensions usually 2 x 2 x 2 meters (or to permafrost level) which is more than capable of containing all of the daily greywater used by a 20 man camp. Sumps constructed in sandy substrate no closer than 30 meters from any water body.**

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency? **Not applicable to seasonal exploration camp.**

## 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 and disposal methods have been employed in the past by a multitude of different exploration companies (including Diamonds North for the last four years) and are considered common practice. No operation and maintenance problems are anticipated.**

## ABANDONMENT AND RESTORATION

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

**Progressive reclamation of drill sites is conducted as the program evolves. As all equipment is needed for the subsequent drill hole, each site is completely cleaned up prior to and during each drill move. Drill pads are typically only 100 (10 x 10) square meters and involve laying timbers on the tundra to support the lightweight drill and its components. All garbage, fuel drums and gear are removed at the end of each hole which takes only 2-3 days to complete. Drill hole collars are cut to ground level once the hole is complete. All sites returned to as close to natural as possible at hole completion.**

**Camp sites are kept clean on a daily basis. Garbage is burned daily and any non-combustible material is backhauled to Cambridge Bay on all of the many scheduled Twin Otter flights (2-3) per week. At end of season all material is backhauled to town except for the plywood and 2 x 4 constructed tent frames which remain standing for the subsequent years program. Upon final abandonment these wooden frames will be burned. All fuel containers, waste, hazardous material and garbage will be removed during final shutdown.**

**See Abandonment and Restoration Plan attached to this application for more details.**

## 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.)
- **X**○ Other: **No formal baseline studies have been initiated as project is only early stage exploration. However several other data is collected before and during all work phases as outlined below.**

1) **Water samples are collected and analyzed before and after any on-ice drilling.**
2) **Crew is requested to report and log wildlife sightings and locations.**
3) **Any and all archeological sites are noted and reported and not disturbed.**
4) **Prince of Wales Northern Heritage Centre notified prior to program commencement regarding documented heritage/culturally significant sites.**
5) **Wildlife specialists contacted prior to commencement such as RWED, CWS and DFO.**

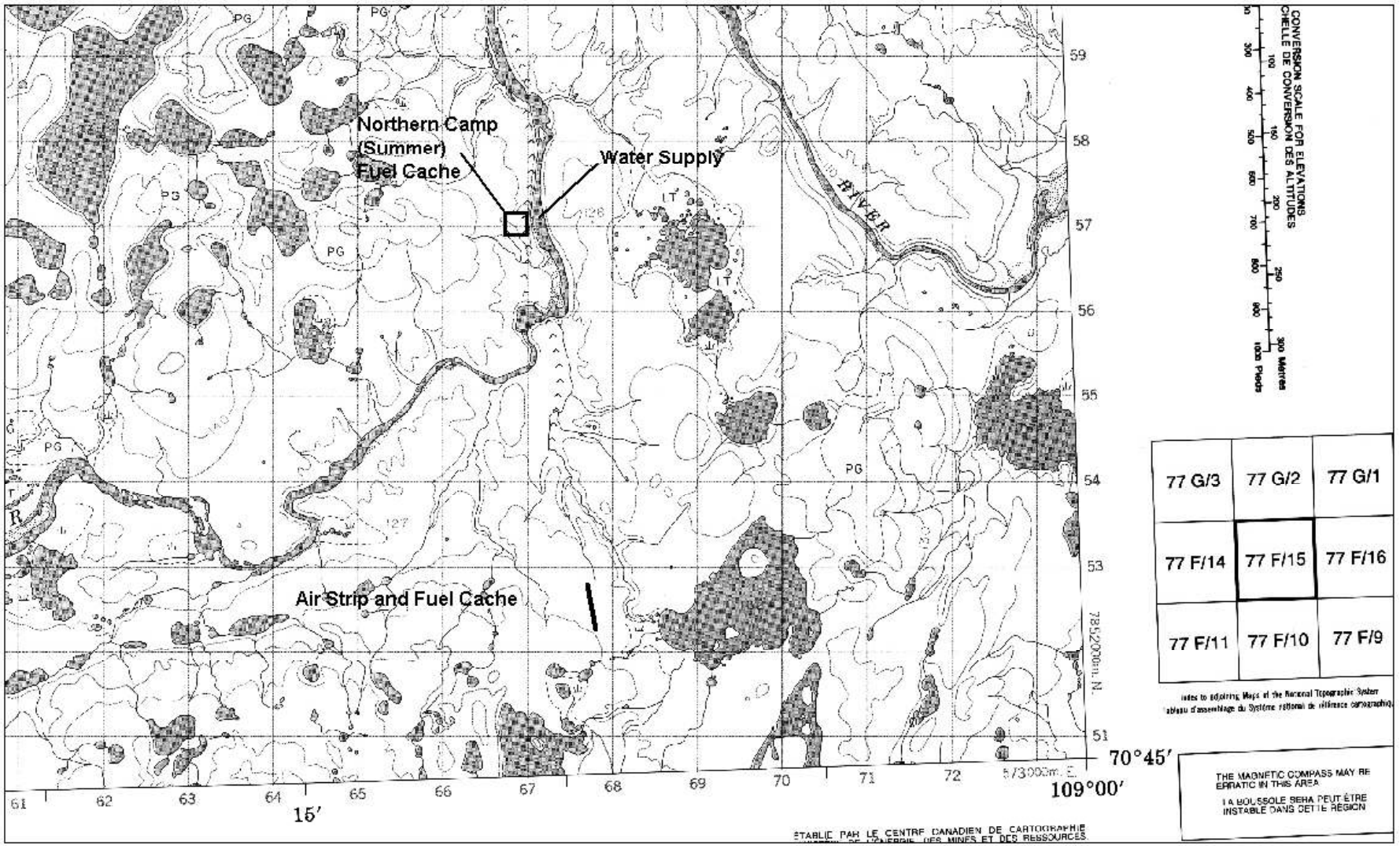
## REGULATORY INFORMATION

40. Do you have a copy of?

- **X**○ Article 13 - Nunavut Land Claims Agreement
- **X**○ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
- **X**○ NWB - Interim Rules of Practice and Procedure for Public Hearings
- **X**○ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
- **X**○ NWTWB - Guidelines for Contingency Planning
- **X**○ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
- ○ Fisheries Act - s.35
- **X**○ RWED - Environment Protection- Spill Contingency Regulations
- **X**○ Canadian Drinking Water Quality Guidelines
- **X**○ Public Health Act Camp Sanitation Regulations
- **X**○ Public Health Act Water Supply Regulations
- **X**○ Territorial Land Use Act and Regulations

You should consult the above document, guidelines, and legislation for compliance with existing regulatory requirements.

**Northern Area Camp Location - Summer Program**
**Access to Site via helicopter from Twin Otter airstrip**



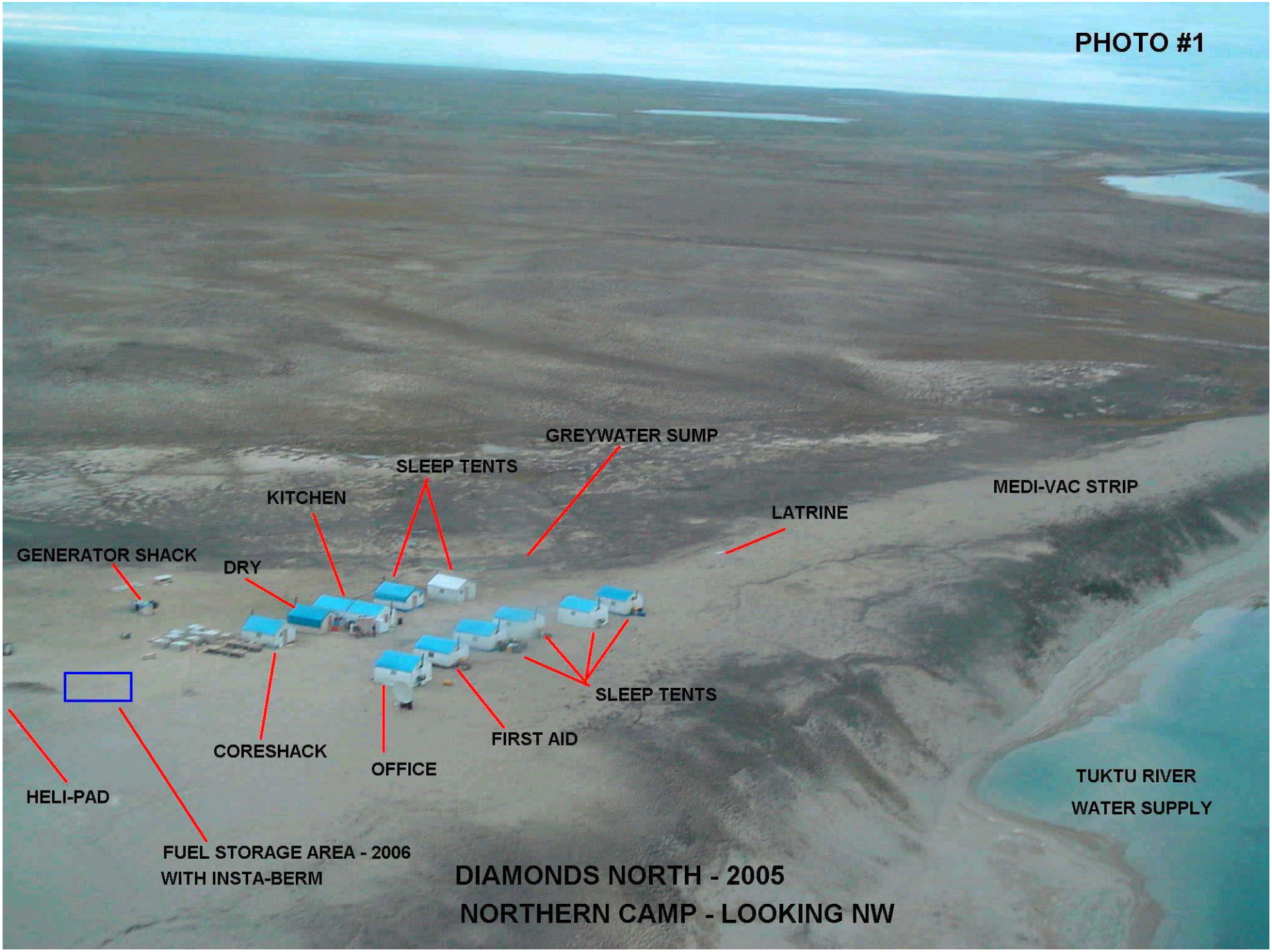
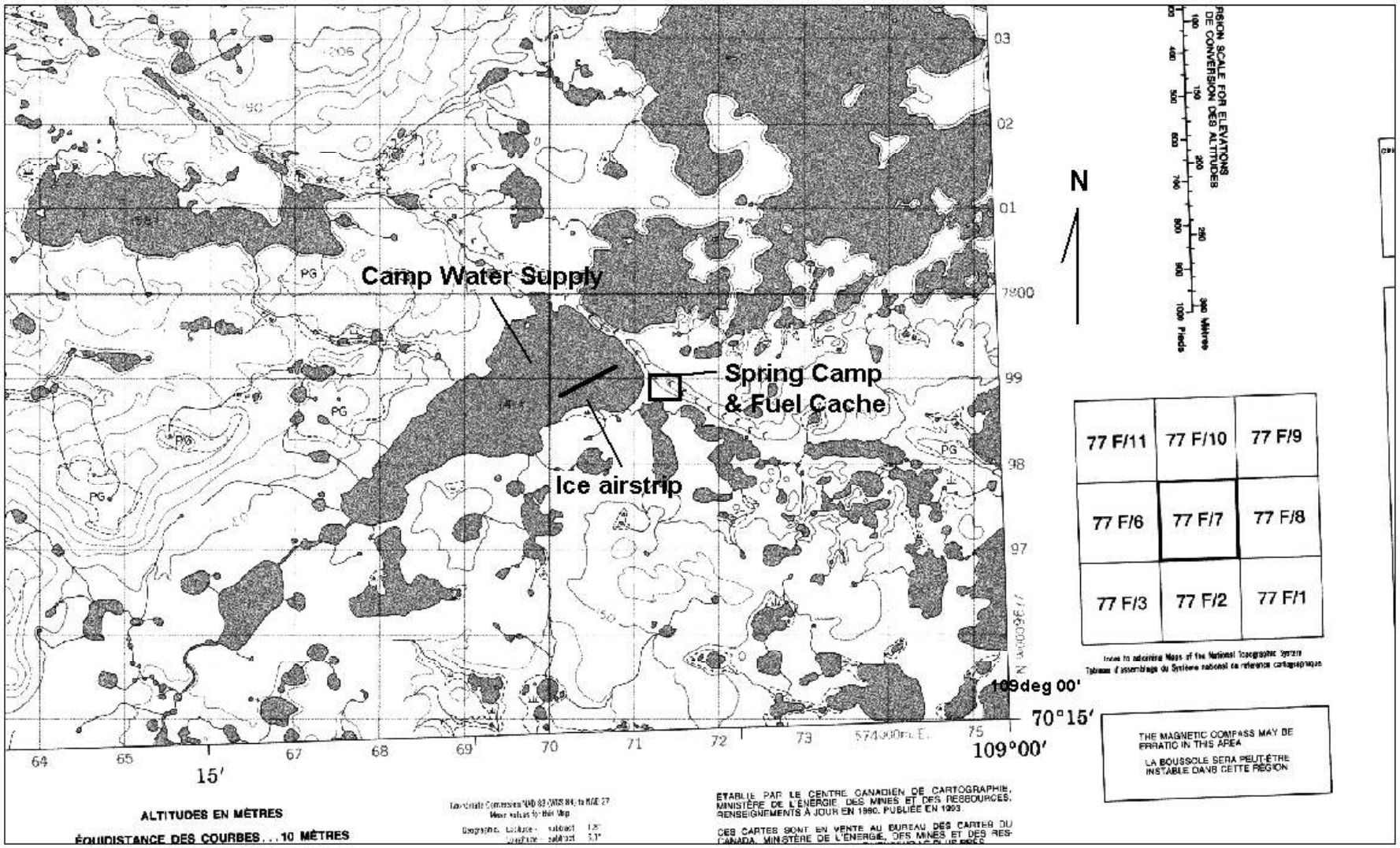
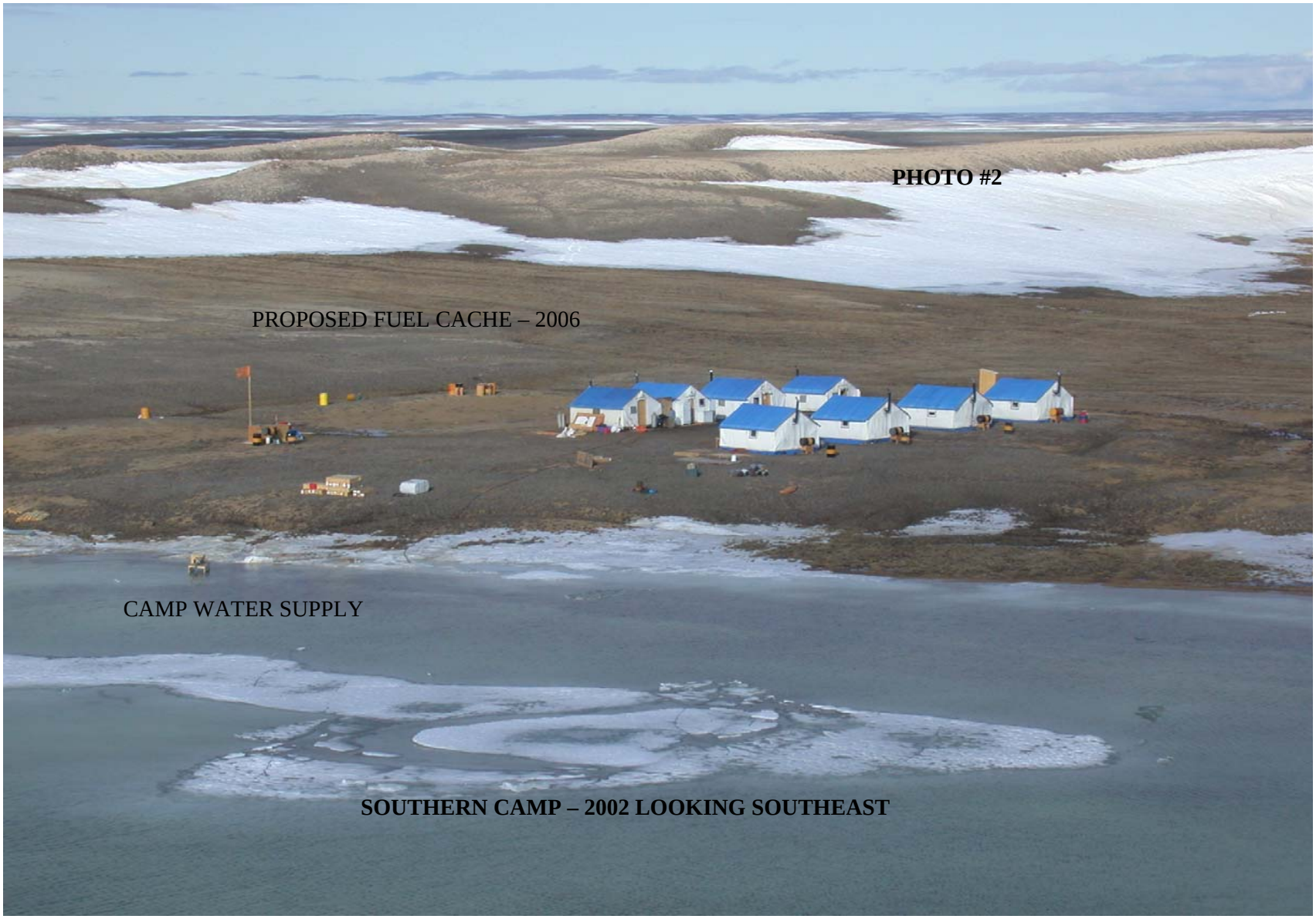


PHOTO #1
GREYWATER SUMP
SLEEP TENTS
KITCHEN
MEDI-VAC STRIP
LATRINE
GENERATOR SHACK
DRY
SLEEP TENTS
FIRST AID
CORESHACK
OFFICE
HELI-PAD
TUKTU RIVER
WATER SUPPLY
FUEL STORAGE AREA - 2006
WITH INSTA-BERM
DIAMONDS NORTH - 2005
NORTHERN CAMP - LOOKING NW

**Southern Area Camp Location - Spring Program**
**Access to Site via Twin Otter**






**SOUTHERN CAMP – 2002 LOOKING SOUTHEAST**