Nunavut Research Institute
Nunavummi Qaujisaqtulirijikkut

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SCIENTIFIC RESEARCH LICENCE APPLICATION

(Land, Freshwater & Marine Based Research)

This application fulfills the requirements for NIRB environmental screening

SECTION 1: APPLICANT INFORMATION

1. Applicant's full name and mailing address:
Tahera Diamond Corporation
130 Adelaide Street West,
Suite 1900,
Toronto, ON
M5H 3P5

Phone: 416-777-1998

Fax: 416-777-1898

E-mail:
missal@tahera.com

2. Field Supervisor (address, if different from above):

Ms. Cheryl Wray, Tahera Diamond Corporation, Jericho Project
P.O. Box 2341
Yellowknife, NT
X1A 2P4

Phone: 780-644-9129
Fax: 780-644-9181

Sat. phone: n/a

3. Other Personnel list (name and position):
Fisheries biologist: to be contracted (fisheries crews will also collect water quality)
Hydrologist: to be contracted

Total # of personnel: 6 (including field assistants) Total # of person days: 200

SECTION 2: AUTHORIZATION NEEDED

4. List the organisations you will contact for necessary authorizations associated with the project.

Department of Fisheries and Oceans (by the contract fisheries biologist for a fisheries licence)

5. List the active permits, licences, or rights related to the project and their expiry date:

- Land Use Permit KTL304C057 Expires 31 October 2006
- Water Licence NWBJER9801 Expires 31 December 2006

SECTION 3: PROJECT PROPOSAL DESCRIPTION

6. Proposed project title: __*Muskox Project Baseline Aquatic Studies - 2006*_____

7. Project duration:
Period of operation: _____1July 2006_____ to ___31 December 2009 (3 year, multi-year licence with annual renewal)_____

8. Location(s) of data collection:

- Land Status Types: Crown, Commissioners', Inuit Owned Surface Lands, Inuit Owned Sub-Surface Lands, & Other
- Please ensure that maps of the project area are attached (1:50 000, 1:250 000)

Location Name	Region	Latitude (north)	Longitude (west)	NTS Map sheet #	Land Status
Muskox Project	West Kitikmeot	65º58'38" N	111º45'00" W	76E/13	IOL
For additional sites, attach a separate page					

NON-TECHNICAL PROJECT PROPOSAL SUMMARY

9. On a separate page, please include a non-technical description of the project proposal, no more than 300 words, in English & Inuktituk (Inuinaktun, if in the Kitikmeot). The project description should outline the project activities (research methods, camps, etc.) and their necessity, method of transportation, any structures that will be erected, expected duration of activity and alternatives considered. If the proposed activity fits into any long-term developments, please describe the projected outcome of the development for the area and its timeline. (see environmental summary, attached)

SECTION 4: MATERIAL USE

10. List equipment (including drills, pumps, aircrafts, etc.):

Equipment type and number	Size-dimensions	Proposed use
Helicopter	Bell 206, equivalent	field crew transport

11. Detail fuel and hazardous materials use (*at the camp*):

Fuels	Number of Containers	Capacity of Containers (gal & litres)
• **Diesel**	1 bladder 60 drums	6000L 205L
• **Gasoline**	5 drums	205L
• **Aviation fuel**	100 drums Jet B	205 L
• **Propane**	80	100 lb

• **Other**		
Hazardous Materials	**Number of Containers/Concentration**	**Capacity of Containers (gal & litres)**
• **none**		
•		
•		

12. Describe method of fuel transfer:

Hand pump for diesel; fuel farm is bermed; bladder has internal secondary containment.
Electric pump to helicopter operated by the pilot

13. Describe any procedures and materials in place to handle accidental spills. Please attach the spill contingency plan and other appropriate information about the hazardous materials associated with the proposed project.

(see spill plan, attached)

SECTION 5: WASTE DISPOSAL AND TREATMENT FACILITIES

14. Describe amount and methods of disposal:

Type of Waste	Projected Amount Generated	Method of Disposal	Additional Treatment Procedures
Sewage	350 L/day	Biolet toilets	Incineration
Grey water	250 L/day	Pond; exfiltration	Exfiltration
Garbage	10 kg/day	Incineration	Ash is landfilled
Overburden (organic soil, waste material,tailings)	Not applicable		
Hazardous waste:	Not applicable		
Other:			

SECTION 6: RESTORATION AND ABANDONMENT PLANS

15. Describe or attach the proposed procedure for site restoration upon abandonment of any area associated with the project:

(see exploration reclamation plan, attached)

SECTION 7: ENVIRONMENTAL IMPACT

16. Indicate and describe the components of the environment that are near the project area, as applicable. Attach any relevant maps or information:

Type of species (common name, associated herd, etc.)	**Important Habitat Area** (calving, staging, denning, migratory pathways, spawning, nesting, etc.)	**Critical time periods** (calving, post-calving, spawning, nesting, breeding, etc.)
Fish:	To be investigated	spring, summer and fall
Caribou:	Bathurst Herd, migratory	April to August
Muskox:	Feeding	June to August
Raptor:	None in the immediate area	
Migratory Birds:	Nesting, foraging	June, July, August
Waterfowl:	Nesting	June
Seals:	None in the area	
Whales:	None in the area	
Narwhals:	None in the area	
Canid family (wolves, wolverines, foxes, etc.)	Project site part of the home territory; no nearby dens	April—June
Bears (grizzly, polar, black):	Project site is part of home territory of grizzly	April – emergence from dens
Other:		
Eskers:	Not surveyed	
Communities:	None in the immediate area; Kugluktuk is closest at 360 km	
Historical/Archaeological sites:	Not surveyed	

17. Indicate and describe other known uses of the area such as local development, traditional use (hunting/fishing/spiritual), outfitting, tourism, mineral development, research, etc.:

No known traditional or non-traditional use other than mineral exploration

18. Describe the impacts of the proposed project activity on the environmental components and uses, in the area listed above:

No impacts anticipated other than very minor disturbances from field crews over short (typically less than 2 week) periods. Helicopter support will be used, combined with boats and walking.

19. What are some suggested mitigation measures for these impacts?

Avoid wildlife harassment
Non-destructive sampling
Incinerate food waste
No feeding of wildlife policy
No hunting by employees or contractors

SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

20. List the community representatives that you have contacted about this proposed project:

Community	Name	Organisation	Date Contacted	Means	Telephone #	Fax #
Kugluktuk		HTA	to contact	Phone		
Cambridge Bay		HTA	to contact	Phone		
Bathurst Inlet		HTA	to contact	Phone		
Umingmaktok		HTA	to contact	Phone		
Cambridge Bay	Donald Havoyiak	KIA	to contact	Phone		

21. Describe the level of involvement that the residents of Nunavut have had with respect to the proposed project. Elaborate on local employment opportunity, training programs, contracts, Inuit Impact Benefit Agreements (if applicable):

One or two field assistants may be required for this small project and will be sought from West Kitikmeot communities listed above. Depending on timing, exploration field assistants may be employed in environmental sampling if available and interested in the work.

22. Describe and attach documentation regarding community concerns or support for the proposed project:

Project support will be solicited through contacts.

23. Is there a Traditional Knowledge (TK) component to this research project?

No

24. Check YES X or NO☐ if you give NRI permission to release the applicants contact information in the Annual Compendium of Research Undertaken in Nunavut, published by the Nunavut Research Institute.

Applicant: Cheryl Wray

_for Cheryl Wray, ____Environmental Coordinator,_____19 June 2006_____

Signature **Title** **Date**