

#### 25/03/2002

#### DISTRIBUTION

Please find enclosed a copy of an application for a Science Research Licence from Craig Goodings, Goodings Environmental Inc..

Craig Goodings's research is titled "Meadowbank Baker Lake Baseline Environmental Study" and is proposed to take place from July 12, 2002 to December 31, 2002.

As per the Scientists Act of Nunavut, community consultation is required before a Science Research Licence can be issued. The documentation is provided for your information and review. A *Reviewer Recommendation Form* is enclosed for your response by May 8, 2002.

Thank you for your continued assistance. Please contact our office if you have any questions or concerns regarding the above.

Susan Ignace Woodley For Mary Ellen Thomas

Manager, Research Liaison

encl.

cc: Environmental Assessment Screener, NIRB
Lands Administrator, Kivalliq Inuit Association
Executive Director, NPC
Executive Director, NWB
Area Manager, DFO

Assistant Director of Wildlife Management, NWMB Mayor/SAO, Municipality of Baker Lake Chairperson, Baker Lake HTO

# Nunavummi Qaujisaqtulirijikkut /Nunavut Research Institute Box 1720, Iqaluit, NT XOA OHO phone: (819) 979-4108 fax: (819) 979-4681 email: slcnri@nunanet.com

### **Reviewer Recommendation Form:** Land &/or Water Based Research

Applicant Nan		Goodings		
Project Name:	Meado	wbank Baker Lake Base	line Environmental Study	
Review Panel		ive Director, NWB		
Region:	Kivalli	P P P P P P P P P P P P P P P P P P P		
		THE RESERVE OF THE PARTY OF THE		
Research Disci	pline: Environ	mental Studies		
Panel Commer	nts:			
Requested Ter	ms or Condition	S:		
	A1 🗀	G'	T:41	Date
Approved Rejected	Annual or Multi-year	Signature	Title:	Date
Kejected	with-year [			



Nunavut Research Institute Nunavummi Qaujisaqtulirijikkut Box 1720, Iqaluit, NT X0A 0H0

phone: (867) 979-4108 fax: (867) 979-4681

email: slcnri@nunanet.com www.nunanet.com/~research

## SCIENTIFIC RESEARCH LICENCE APPLICATION (Land, Freshwater & Marine Based Research)

### SECTION 1: APPLICANT INFORMATION

1. Applicant Information	
Applicant's full name, title, and mailing address:	Goodings Environmental Inc. 18157 21A Ave, Surrey, B.C. V4P 3B9
Fax:	604-221-3001
Phone:	604-341-7042
Email:	cg@telus.net
<ol><li>Supervisor Information</li></ol>	
Field Supervisor (address, if different from above)	Craig Goodings
Phone: (radio or otherwise)	604-341-7042
3. Other Personnel	
List name and position:	Management: Craig Goodings Aquatic: Randle Baker Wildlife: Jack VanCamp Hydrology: Neil van der Gugten Technicians: Tom Mannik, Hattie Mannik, Roy Avaala
Total # of personnel:	7
Total # of person days:	100

### **SECTION 2: AUTHORIZATION NEEDED**

4. Authorization Contacts	
List the organizations you will contact for necessary authorizations associated with the project:	wildlife permit- Sustainable Development,NWMB fish permit- DFO Land Use Permit- KIA Water Use Permit- NWB
5. Authorization	
List the active permits, licences, or rights related to the project and their expiry date:	Land Use permit- 2003, Commercial Lease - 2009

### SECTION 3: PROJECT PROPOSAL DESCRIPTION

6. Project						
Duration:						
Period of operation:	July 12,	2002 - ]	December	31,2002		
Proposed term of permit:	July 12,	2002 - ]	December	31, 2002		
Project Title:	Meadov	wbank B	aker Lake	Baseline	Environmenta	ıl Study
7. Location(s) of data collection:						
Location Name	Region	Latitude	Longitud	e NTS Mar	Land Status	
Second Portage Lake	North of Baker Lake	65 02'	96 05'	66H/I	Inuit Owned	
Third Portage Lake	as above	65-02'	96 10'	66H/I	Inuit Owned	
Tehek Lake	as above	65 00'	95 55'	56E/4	Inuit Owned	
John Lake	as above	65 04'	96 05'	66H/I	Inuit Owned	
Inuggugayualik Lake	as above	65 02'	96 20'	66H/I	Crown	

### NON-TECHNICAL PROJECT PROPOSAL SUMMARY

8. Non-		
Technical		
Project		
Proposal		
Summary		

### SECTION 4: MATERIAL USE

9.	Lis			
eq	uip	me	nt	
(in	clu	din	g	
dri	lls,	pui	mps	S,
air	cra	fts	eto	)

Equipment Type and Num	berSize-dimensions	Proposed Use
Hydrometric Stations	> 1x1 m	Automatic water level monitoring lo lake level
Biological monitoring	small nets and bottles	to collect water and sediment samples for analysis
fish collection nets	150x2m	to collect samples for measurement and analysis
Zodiac boat	> 6m in length	To collect smaples
-	-	-
-	-	-

10. Detail fuel and hazardous

materials use

Fuels	Number of Containers	Capacity (gal/litres)
Diesel	-	-
Gasoline	-	-
Aviation Fuel	-	-
Propane	-	-
Other	-	-
Hazardous Materials	Number of Containers	Capacity (gal/litres)
-	-	-
-	-	-
7	-	-
Describe		

Other

method of No fuel sc transfer	fuel will ientific re		ght in for th	е			
11. Spill			Maria de Maria de Caracteria d				
Contingency	1						
Plan							
Describe any procedures and materials in place to handle accidental spill Please fax or mail your spill contingency plan and other appropriate information about the hazardous materials associated with the proposed project.	Not spe					nergency proce ation camp rec	
SE	CTION 5	: WAST	E DISPO	SAL A	ND TRI	EATMENT	FACILITIES
12. Describe	9						
amount and							
methods of							
disposal:	Name of the last o						
Type of Waste	Amount	of	Additional Treatment Procedures				
Sewage	-	-	-				
Grey Water	-	49	-				
Garbage	-	-	-				
Overburden	-	-	-				
Hazardous Waste	-		-				

### **SECTION 6: RESTORATION AND ABANDONMENT PLANS**

13. Site Restoration	
Describe the proposed procedure for site restoration upon abandonment of any area associated with the project.	All infrastructure will be removed from site at the completion of the baseline monitoring program.

### SECTION 7. ENVIRONMENTAL IMPACT

14.
Indicate and
describe the
components of
the environment
that are near the
project area, as
applicable. Fax
or mail any
relevant maps
or information.

Type of	Species	Important Habitat Area	Critical Time Periods	
Fish:	Lake Trout, Artic Char,Lake Whitefish. burbot, arctic grayling, lake cisco	spawning, migratory routes, lake	fall and spring spawning and migration	
Caribou:	Tundra wintering herd, Beverly herd, qamminuariak herd	Potential summer/winter habitat	calving( late May to mid-June) Overwintering. calving	
Muskox:	Thelon Game Sanctuary	potential range	calving	
Raptor:	Gyrfalcon and Peregrine falcon	possible nesting habitat	nesting	
Migratory Birds:	N/A	no important areas	N/A	
Waterfowl:	N/A	no important areas	N/A	
Seals:	N/A	-	-	
Whales:	N/A	-	-	
Narwhals:	N/A	_	-	
Canid Family:	-	potential denning and range habitat	denning February- August	
Bears:	barreen- ground grizzly	potential denning and home range habitat	denning - late fall to early spring	
Eskers::	N/A	-	-	
Communities:	Baker Lake	-	-	
Sites:	-	grave sites	-	

15.		
Indicate and describe other known uses of the area such as local development, traditional use (hunting/fishing/spoutfitting, tourism, mineral development, research, etc.	oiritual),	Traditional use- Area used for camping, fishing, and hunting.  Mineral development- This research is being conducted in support of mineral development activities at the site.  Recreation- Local outfitters operate within the region. Specific recreational uses in the local study area are minimal.
16.		
Describe the impact of the proposed project activity on the environmental components and uses, in the area listed above.	enviro use of collect	of the proposed research activities are passive and potential impacts to immental components are minimal. Research activities will require short helicopters at times as part of areial surveys. Plant surveys will only to small amounts of sample to minimize impacts to vegetation unities.
17.		
What are some suggested mitigation measures for		Forts will be made to minimize impacts to fish and wildlife. Aerial surveys of be conducted during any sensitive wildlife windows.

### SECTION 8: COMMUNITY INVOLVEMENT AND REGIONAL BENEFITS

18.						
Community	/					
Representa						
List the community representives						
that you have contacted ab this proposed project.	out					
Community	Name	Organization	Date contacted	Means	Telephone	Fax
Baker Lake	Mayor	Hamlet	1997,1998,1999, 2000	meetings	793- 2874	793- 2569
Baker Lake	Jacob Ikinilik			meetings		-
Baker Lake	various elders	-	97,98,99,00	meetings	-	-
Baker Lake	various	CLARC	98,99,00	meetings	_	-
-	-	-	-		-	-
-	-	-	_	-	-	-

10 1 0001		
10. Local		
Involvement		
Describe the level of involvement that the residents of Nunant have had with respect to the proposed project. Elaborate on local employment opportunity, local benefits, training programs (if		
applicable)		
11.		
Community		
Support		
Describe, and		
fax or mail		
documentation		
regarding	Not specifically applicable to this research. Emergency procedures and	
community		
CONTOCINIS OF	materials will be followed according to exploration camp requirements.	
support for the		
proposed		
project.		W 100
12.		
Traditional		
Knowledge		
Is there a		
Traditional		
Knowledge (TK)		
component to		
this research		
project?		

592 Document

#592

#### NON-TECHNICAL PROJECT PROPOSAL SUMMARY

	200	
Background:		

Cumberland Resources Ltd. has conducted mine exploration activities at the Meadowbank Property since 1995. The property is located approximately 70 km north of Baker Lake. Previous research has focused on the aquatic environment. The objective of the 2002 program is to gather additional information on existing environmental conditions in support of future environmental assessment and long-term monitoring for the mine.

#### Proposed Research Activities:

The following activities are proposed for the 2002 research program:

- Collect additional information on lake water and sediment quality and aquatic plants
  and animals, including fish populations. Field work will be scheduled to gather
  seasonal data (e.g., early spring and fall) to improve existing knowledge. Sampling
  sites will be located in four lakes around the mine area, and a comparison lake in the
  Meadowbank River drainage. All of these sites have been previously sampled.
- Collect new information on site hydrology, including snow levels, lake ice/water levels, runoff, and discharges. Monitoring will begin in early spring to capture melt conditions, and will continue to late summer. Sampling sites will be located in four lakes around the mine area.
- Collect new information on plant, wildlife, and habitat features around the mine.
  Plant surveys will be conducted in mid-summer, and wildlife field work will be
  scheduled to gather seasonal data. Work will focus on the local study area, but some
  information will also be collected along an existing winter road corridor (Baker Lake
  to the Meadowbank Property), and in Chesterfield Inlet.
- Conduct a field survey (aerial and foot) of archaeological resources and traditional
  use areas. The survey will document sites of significance near the mine area and
  along an existing winter road corridor (Baker Lake to Meadowbank). No excavation
  is proposed as part of this study.

Apr 01 99 09:46a Craig Goodings

6049470209

p.B

03/30/1999 21:47 8676452063

SAKKU INV

PAGE BB

שרת יצרם יצרם שלישלים של ארם ישל של של של של הארבי של ביוולרל

ACRANTIC DOST OCOFOCERATIONS

MASO L:

66>c=d 6021024 6021000011110 076400000000 DX4 1995 For Ardis. C'a Dorcica Darrobs (Lo 70km PCF) ٥٥٠٥ المارك د المارك و ۱۵ مارك مارك المارك الما סכשר ארסיכספינטנייי (L) בינת אינ 1999 ארסיכספינטנייי אפיבוחילישטי שלאיסחרהסיטו ישטאלסטילסטלים מפשרסכיני DYS'& 4') '\DCD@>')' ለንው '\T. ር-ዉ DYS'& 4'\DP45') '\D'L' 4'SJT 2002-T.

#### SPOSTSCOOL GO GOL + FULL VENERALE

C'44 NULLY VEYTON VEYTO "6024771"4000"11">1" L'641:

- Λρίζι-ασισολού Διω σίτησυ. Δερίβερηερη-ωρί Δ'62'6D'004. Λεησ" 17(Dod'202 d'91' Δ200 230417060096-1-010600910000 160ALDOORDONO. DYSGO TO OF THE TOUR SECTION OF THE SECTION OF THE TOUR PARTY OF THE TOUR PROPERTY OF THE TOU ישטארשייטישישה של שתלישל כילשכון י כורי 「boby「boortheloas.
- · 605/200 0(3)400 5602470050400400 125036600. ΔαD/DOJ ליסתלינירים. י6>אינסרסיםסים ס>י ססיליכסים ילי

apr 01 99 09:47a Craig Goodings

6049470209

p.9

03/30/1999 21:47 8676452063

SAKKU INV

PAGE 89

May 17 99 05:08p Craig Goodings

6049470209

P.2

05/89/1999 22:44 8676452863

SAKKU INV

PAGE 04

#592

#### DEPIPEDE VEST VEST COUSE

MERGENZY CATAGEL:

"boxLao" par allongraf allo arditi

POTLODY" (DOG "PLO") O"F

Acad bod )- or L:

ود>زور دران، و ۱۹۶۰ به ۱۲ در ۲۵ مرده مره مره مرد مرد مرد مرد و والموم סציחים)" פירסתלסיד כסגיני 1995-ישחישו כים סינריסיטים 70 פבנטרי ססיבינה ישנהיטסירי. נים שלימסלי (ילה 1999 ישטאימהיטי L'a 60'10 كراكمه مدر معمود معالم المعرب معرف مدل مدلي "همكلهم مورد (دو همادر) (محوية عمر المحرد ا 

eposterio:

pasi denenii chni

عج بام، مح-د طرع طه دداک

UU.P. - 4. V. 188 ber'co". Dasit

D'65C: 1-888-668-4236 -64'6 1-604-947-0209

סיטיביטחיטיםיי בסיטי: פירסיי כסטיטרי, התרסישרי. מילרסישרי

"βρΔ((~4'b'σ" )464'σ"

4'P'YOU'SO:

CL'TO DYLOLA' Pard) Ara" of

C4>D>2466-046131 )44CD>246462013. שלישה בילסי ליפחורסשלים שיליינסילו

UUSPUTE BYDOG.

)4" M(D'ray L) (L'do l' A C-- de Dod b) o' Acad l'c-cato'. אבירולם שר שר ישר בריקס שבים כדיקס בישר שור על סיף מעהישע בריקס רריקס AC-COOPSIS DPYOSSIS (L'64 AC-COOPSIS D) CDOOSSIS DPYOLOGICA DPYOLOGICA DISTRIBUTION OFFIFE asabordons: SPLAISHS EAL, LOCALOSE CLOSE GOLLOOMES. arezacione. Cale CLITO AERARCAMONO DICAPAGAS-SONS APLUL DIFFELL

			1
DCD,PCD4. QL	(רכיזאט) איו		
مدم، ۱۹۷۹ مر	1-D5Ver	D'3"	1
CP),UP4. 4U4	4	D<710	