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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 Name:	Elizabeth Tur			
Project Name:	Borden Basin	Project- NRI		
Review Panel Name:	Executive Dire	ector, NWB		
Region:	North Baffin			
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	THE PERSON NAMED IN COLUMN			
Research Discipline:				
Research Discipline.				
				T
Panel Comments:				
Requested Terms or (Conditions:			
Requested Terms of C	onditions.			
Recommend Approve	Annual or	Signature	Title:	Date
Recommend Reject	Multi-year			



4/26/2004

DISTRIBUTION

Please find enclosed a copy of an application for a Science Research License from Elizabeth Turner, Canada-Nunavut Geoscience Office.

Elizabeth Turner's research is titled "Borden Basin Project" and is proposed to take place from June 13, 2004 to Aug 15, 2004.

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 **June 7 2004.**

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

Mary Ellen Thomas
Manager, Research Liaison

encl.

Cc: Environmental Assessment Screener, NIRB
Lands Administrator QIA
Executive Director, NWB
Director of Wildlife Management, NWMB
Mayor/SAO Pond Inlet
Chairperson HTO Pond Inlet
Mayor/SAO Clyde River
Chairperson HTO Clyde River
Chairperson HTO Clyde River
Mayor SAO Arctic Bat
Chariperson HTO Arctic Bay
Mayor SAO Resolute Bay

Chariperson HTO Resolute Bay

Executive Director NPC

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Nunavut Water Board

2004

Public Registry



P.O. Box 1720, Iqaluit, NU X0A 0H0, Tel: (867) 979-6734, Fax: (867) 979-4681, Internet: iqrcnri@nunanet.com

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

SECTION 1: APPLICANT INFORMATION

Applicant Information	
Applicant's full name, title, and mailing address:	Dr. Elizabeth Turner Canada-Nunavut Geoscience Office P.O. Box 2319 Iqaluit NU X0A 0H0
Fax:	867-979-0708
Phone:	867-979-3539 x28
Email:	eturner@nrcan.gc.ca
Supervisor Information	
Field Supervisor (address, if different from above)	-
Phone: (radio or otherwise)	-
3. Other Personnel	
List name and position:	one volunteer assistant (name as yet unknown)
Total # of personnel:	2
Total # of person days:	120

SECTION 2: AUTHORIZATION NEEDED

4.		
Authorization		
Contacts		

cist the organizations you will contact for necessary authorizations associated with the project:	NWB; Q	IA						
5. Authorization								
ist the active permits, icences, or ights related to he project and heir expiry date:	because ?		locations	will be dif	ferent fr		d out this forned in 2003 (al	
	SECT	ION 3: P	ROJEC	T PROP	OSAL	DESCRIP	TION	
6. Project Duration:								
Period of operation:	June 13,	June 13, 2004 - Aug 15, 2004						
Proposed term of permit:	June 10, 2004 - Aug 20, 2004							
Project Title:	Borden I	Basin Strati	graphy, St	ructural C	eology a	and Metallog	geny	
7. Location(s) of data collection:								
Location Name see list	RegionLat	itude Longii	udeNISN	napiland S	tatus			
to be								
delivered by hand	- -	-	-	-				
-		-	-	-				
	- -	-	-	-				
		-	-	-			No.	
	NON-T	ECHNIC	AL PRO	JECT P	ROPO	SAL SUN	MARY	
8. Non- Technical Project Proposal								

SECTION 4: MATERIAL USE

9. List			
equipment			
(including			
drills, pumps,			
aircrafts, etc.)			
THE RESIDENCE ASSESSMENT OF THE PARTY OF THE	The second second		

Equipment	Type and Number	Size-dimensions	Proposed Use	
		206L	intermittent (to move camp only)	
backpack	ing tent (2)	-	-	
-		-	-	
-		-	-	
-			-	
-		-	-	
10. Detail and	fuel		The state of the s	
hazardous				
materials				
_	Number of Contai	ners Canacity (ga	al/litres)	
Diesel	-	-	237 1741 00)	
Gasoline	-	-		
Aviation				
Fuel	-	-		
Propane	-	-		
Other	ner naphtha 5 litres			
Hazardous Materials Number of Containers Ca		ners Capacity (ga	al/litres)	
-	-	-		
-	-	-		
-		-		
	Fuel will be trans stove using a fu		oking	
11. Spill				
Continger	ncy			
Plan				
Describe an procedures materials in place to har accidental single please fax of mail your spector spian and off appropriate information about the hazardous materials associated the propose project	and ndle spills. or bill Spilled fue burned.	l will be absorbe	d with absorbe	nt paper, which will then be

SECTION 5: WASTE DISPOSAL AND TREATMENT FACILITIES

12. Describe
amount and
methods of
disposal:

Type of Waste	Projected Amount Generated	Method of Disposal	Additional Treatment Procedures
Sewage	1 litre/day	burial	-
Grey Water	10 litres/day	burial	-
Garbage	1 emall	transport to municipal landfill by helicopter	-
Overburden	-	-	
Hazardous Waste	-	-	
Other	-	-	-

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.	With each camp move, all materials used will be removed and each site returned to the condition in which it was found.

SECTION 7. ENVIRONMENTAL IMPACT

14.			
Indicate and describe the components of the environment are near project area, applicable. Faor mail any relevant mapinformation.	ent the as ax		
Type of S	Species	Important Habitat Area	Critical Time Perio
Fish:	n/a	-	-
Caribou:	n/a	-	
Muskox:	n/a	-	-

n/a

Raptor:

Migratory		1 1
Birds:	n/a -	
Waterfowl:	n/a -	-
Seals:	n/a -	-
Whales:	n/a -	-
Narwhals:	n/a -	-
Canid Family:	n/a -	-
Bears:	n/a -	-
Eskers::	n/a -	-
Communities:	Arctic Bay	-
Sites:	n/a -	-
15.		
Indicate and describe other known uses of the area such as local development, traditional use (hunting/fishing/soutfitting, tourism, mineral development, research, etc.		Five of the proposed sites have no known previous use (camps 2,6,7,8,9). Two have been used by previous scientists (camps 3,10), and one has evidence of previous use by DFO (camp 4). Camp 1 has been used or visited by mineral explorationists. Camp 10 has an airstrip and considerable evidence of recent use.
16.		
Describe the impact of the proposed project activity on the environmental components and uses, in the area listed above.	Mini	mal to no impact is anticipated.
17.	1 - 4 - 4 - 10	
What are some suggested mitigation measures for these impacts?	-	

SECTION 8: COMMUNITY INVOLVEMENT AND REGIONAL BENEFITS

List the community representives that you have contacted about this proposed	18.	
Representatives List the community representives that you have contacted about this proposed project.	Community	
community representives that you have contacted about this proposed project.	Representatives	
	List the community representives that you have contacted about this proposed project.	

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1/02 post	-	-									
1/02 post	-	-									
1/02 post	-	-									
1/02 post	_	-									
4/02 post	-	-									
	ALC: NO.										
10. Local Involvement											
Describe the											
sorbed with abso	rbent paper	, wh	nich will then be								
	V-0 3 W										
	4/02 post 4/02 post 4/02 post 4/02 post 4/02 post	4/02 post - 4/02 post - 4/02 post - 4/02 post -	4/02 post 4/02 post 4/02 post 4/02 post								

TURNER 2004 - BORDEN BASIN PROJECT - NRI

<u>Purpose</u>: This is the second year of work in the Borden Basin, which is the geologic name for the rocks in the broad area between Arctic Bay and Pond Inlet. Its primary goals are: 1) investigating the properties of the rocks in the region, and what they can tell us about the geologic history of the area; and 2) understanding how zinc and lead were transported to the area and deposited there, and what factors control where they are found in the region.

<u>Proposed duration of field work</u>: The 2004 field season is proposed for June 13 - August 15.

Study area: Parts of NTS 37G, 48A,B,C, 47H, 38B, and 58C.

<u>Activities</u>: The work will be accomplished by 2 people travelling on foot on the land from small base camps. Rocks will be described, mapped, measured, and sampled (fist-sized pieces or smaller) using a rock hammer.

<u>Base camps</u>: A series of 10 small base camps is proposed over approximately 2 months (mid-June to mid-August). Each will consist of 2 tents, which will be removed each time the 2 researchers move camp.

<u>Transportation</u>: Camp moves will be done using a helicopter based in either Pond Inlet or Resolute Bay. All transportation on the ground will be by foot.

<u>Fuel</u>: We will use approximately 5 litres of camping fuel for cooking at each camp location.

<u>Remediation</u>: Sewage and grey water will be buried, and garbage taken to a municipal landfill by helicopter each time the camp is moved. All other material used or collected will be removed from each site with each camp move.

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<u>Δροσρά:</u> (L^a Λολα^δ)σα^δ)⁶ L⁵>² Δ Δ⁶ Δ⁶ Λλ⁶(C⁵)⁶ ΔαΠ¹

Δασ⁵ - 2)Π⁶6 σ⁶ Ρ⁵6 α ΔαΔ⁵6 (Ρσα⁶)⁷, Δα⁶⁶)⁴ακ⁷6 (Ρ) Π⁶,

> ν(Πς⁶ (Ρ) Π⁶, Δ¹ L) ⁶ Ρ⁵ (Γρσ⁶ Δ⁶)

Δ)⁵ Π⁶ Ρ⁶ (Γ⁶ Ρ⁵ (Γ⁶) Γ⁶)

Δ)⁵ Π⁶ Ρ⁶ (Γ⁶ Ρ⁵ (Γ⁶) Γ⁶)

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CAMP#	NAME	MAP	NTS	LAT	LONG	DATES (approx)	land status
1	Paquet Bay	1	37G	71°56.5'	78°17.0'	June 13-16	PI-13/37G surface
2	White Bay 1	2	38B	72°12.75'	79°18.5'	June 17-20	PI-21/37G,38B surface
3	White Bay 2	2	38B	72°22.15'	79°42.5'	June 21-24	crown
4	Tremblay Sound	3	48A	72°24.6'	80°52.7'	June 25-28	PI-33/48A surface
5	(Nanisivik)	4	48C	73°02.5'	84°34'	June 29-July 6	crown
6	Red Rock Valley	5	48B	72°58.2'	84°11.2'	July 16-23	AB-05/48A,B subsurface
7	Adams River	3	48A	72°43.3'	83°00.0'	July 24-27	crown
8	Alpha River	3	48A	72°35.0'	82°02.3'	July 28-Aug 1	PI-38/48A surface
9	Bellevue Mountain	3	48A	72°25.0'	81°23.8'	Aug. 2-9	PI-34/48A subsurface
10	Hunting River	6	58C	73°38.5'	94°47.0'	Aug 10-13	crown









