

ᐃᓂᓕᓄᓇᓂᓗ ᓄᓇᓂᓗ / P.O. Box 2379 Cambridge Bay, NT / EKALUKTUTIAK, NUNATAMI XOE OCO = ᐅᓂᓕᓄᓇᓂᓗ / Phone/HIVAYAOTA: (867) 983-2593 = ᐃᓂᓕᓄᓇᓂᓗ ᐅᓂᓕᓄᓇᓂᓗ / Fax/FAX-KOT: (867) 983-2594

PROJECT OVERVIEW

July 3, 1998

To: Distribution List via fax.

Re: NIRB file no. 98W06N100

Project: Mineral Exploration near Ingi Lake/Nagvaak Lake

Proponent: Noranda Mining and Exploration

Region: Kivalliq

Location: Nagvaak Camp: 67°29.0'N 82°50.1'W

Ingi Camp: 67°04.6'N 83°43.2'W

Drill Hole 1: 67°03.8'N 83°42.0'W

Drill Hole 2: 67°05.1'N 83°41.7'W

Project Overview:

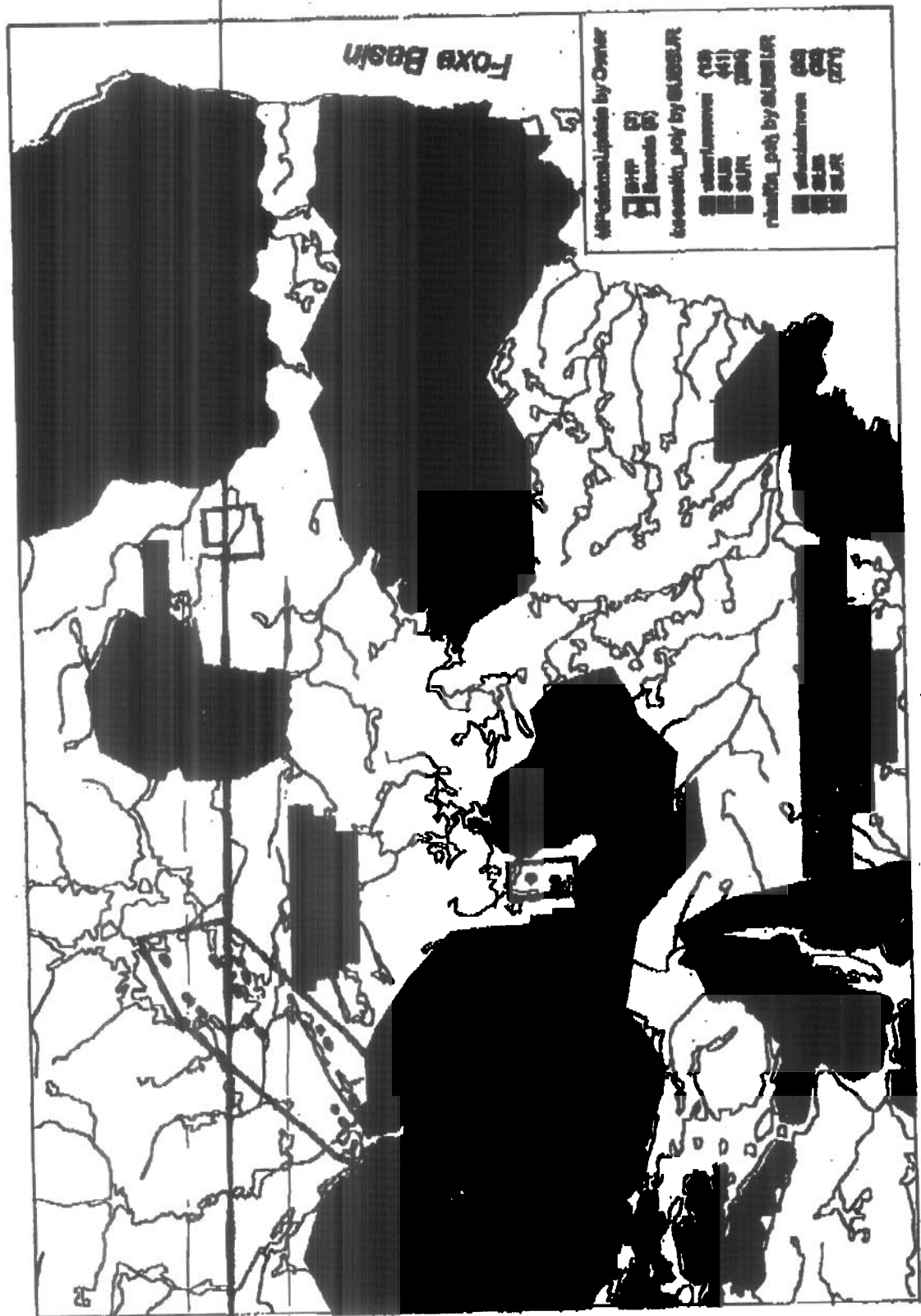
Noranda Mining and Exploration Inc. is proposing to conduct mineral exploration in central Melville Peninsula which will be a continuation of a mineral search initiated by BHP Minerals during 1994-1996. This project is expected to begin in July 1998 and finish in August 1998 with the likelihood of returning in 1999 if the search is successful.

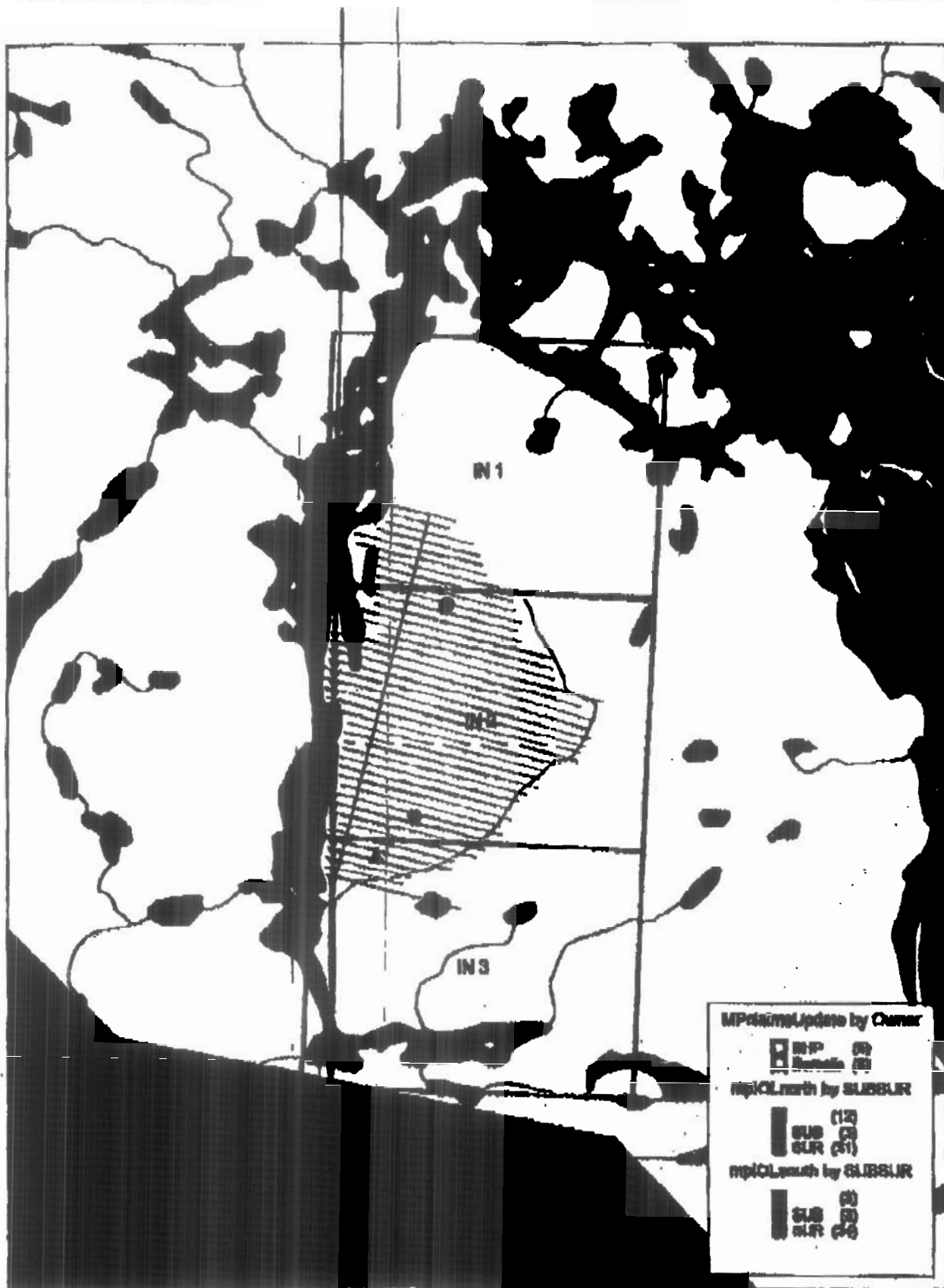
The work includes general prospecting, geological mapping, ground geophysical surveys and two diamond drill holes, approximately 250m each. The drilling is to be completed on the Ingi Lake claims on crown land, while the remainder of the work will be carried out mostly on IOL lands.

There are two proposed camp locations, one at Ingi Lake and the other near Nagvaak Lake, both of which were previously used by BHP. By reusing one of these camp sites, environmental impacts will be minimized. The camp will be cleaned up and restored to its natural state upon completion of the summer work program. The Nagvaak site is the preferred site for economic and safety reasons because a Twin Beach aircraft can land on the esker where the camp is located. The camp will house 10 to 12 people for approximately 30 days. Hand dug pits will be used for sewage and waste disposal with lime and javex used for treatment of bacteria and odours. All garbage will be incinerated and any residue material remaining will be packaged and back-hauled to a regulated land fill site.

Approximately 1000L of water will be used per day for the camp and 2000 to 3000L per day for the drill activities. Return water will be recycled and any drill additives used are natural and biodegradable. Drill cuttings will be filtered out at the drill site before returning to the surface.

Drip pans and absorbent matting are used under all equipment in case of fuel spills and the camp and drill are supplied with 95 gallon spill kits. Fuel caches are to be lined with impermeable tarps, either in natural depressions or constructed berms. A copy of the spill contingency plan is attached. Approximately 100 drums of jet B fuel, 50 drums of diesel fuel, 1 drum of gasoline (all drums 250 litres each) and 25 propane cylinders (100 lbs each) will be needed for camp and drill.





noranda
Mining and Exploration Inc.
Western Canada Region
940 Alroy Drive, Thunder Bay
Ontario, P7B 6A4

Ph: (807) 623-4339 general: 625-7549 direct
Fax: (807) 623-0482
reesm@noramin.com (Noranda or Internet)
mrees@microage-fb.com (Internet)
reesm (AT&T mailbot)

DATE: June 16, 1998

TO: David Porter, License Administrator, Nunavut Water Board

FROM: Matt Rees

RE: Water Permit Application for the Ingi Lake Project, Melville Peninsula

CC:

Dear David,

Please find attached an application form, supplementary questionnaire, maps and a cheque for \$30 regarding our proposed drilling program on the IN claims, near Ingi Lake, on Melville Peninsula, NT. The total drilling program is fairly small (~500 to 1000 m), mostly consisting of two moderate depth holes (250 m $\pm$) to test two targets on the Ingi Lake grid (see maps). Further holes may be drilled nearby (within 300 m radius) based on these results, and a few shallow holes may be used to test any prospective targets in the "Area 14" region, if warranted by our initial prospecting. As mentioned in the application, the total water usage is low, and all water that is released will be filtered to remove the salt.

If you require further information, please don't hesitate to contact me. As with our recent Wellington application for Devon and Cornwallis, I apologise in advance for the timing of the application w.r.t. our planned start-up, but the delay in the agreement between BHP and Noranda is again to blame (similarly, Noranda is continuing work on ground previously explored by BHP from 1994 to 1996, and BHP's old Nagvick and possibly Ingi Lake campsites will be reused). If there is any way I can help in expediting the approval of the permit, please do not hesitate to call either myself or Clint Barr (field supervisor for the program).

Regards,



Matt Rees

Project Geologist

NUNAVUT WATER BOARD LICENCE APPLICATION FORM

Application for licence, amendment to licence, or renewal of licence

1. NAME AND MAIN BUSINESS OF APPLICANT Northwest Mining & Exploration Inc. 960 Arroyo Drive Thunder Bay, Ont. P7B 6A9 Phone 823-1829 Fax 823-1852	2. ADDRESS OF HEAD OFFICE IN CANADA IF INCORPORATED 1 Adelaide St. E., Suite 2700 Toronto, Ont. M5C 2E6 Phone 982-7449 Fax 982-7420
3. LOCATION OF UNDERTAKING (provide map and attach a map, indicating watercourse and location of any proposed waste deposits) Inglu Lake, Melville Peninsula, NT. 46014 Nugget Creek Latitude 67.4829384 Longitude 92.83557795 (SEE MAP)	
4. DESCRIPTION OF UNDERTAKING (describe and attach plans) Exploration Diamond Drilling	
5. TYPE OF UNDERTAKING ☐ Industrial ☐ Power ☐ Agricultural ☐ Mining and Milling ☐ Conservation ☐ Recreation ☐ Municipal ☒ Other (describe): <u>EXPLORATION</u>	
6. WATER USE ☒ To obtain water ☐ Flood control ☐ To cross a watercourse ☐ To divert water ☐ To modify the bed or bank of a watercourse ☐ To alter the flow of, or store, water ☐ Other (describe): _____	
7. QUANTITY OF WATER INVOLVED (litres per second, litres per day or cubic metres per year, including both quantity to be used and quantity to be returned to source.) ~1000 to 3000 l/day, depending on quality of return to the hole	

06/17/98

08:33

13

0452

NORANDA TRAY

ID:483384383

0004

PAGE 3

2.	WASTE DEPOSIT (quantity, quality, treatment and disposal)	
Water is recirculated as much as possible, and filtered before release back at surface in natural sump.		
4.	OTHER PERSONS OR ORGANIZATIONS AFFECTED BY THIS INVESTIGATION (give name, address and location, sketch if necessary)	
None (all drilling is on Crown land)		
10.	PREDICTED ENVIRONMENTAL IMPACTS AND INVESTIGATION AND PROPOSED MITIGATION	
NO KNOWN IMPACTS		
11.	CONTRACTORS AND SUB-CONTRACTORS (name, address and location)	
Midwest Drilling, Nunavut or Heli-Link or Lacro Slaws Heli-Operations		
12.	STUDIES UNDERTAKEN TO DATE (see and attach copies)	
None		
13.	INCLUDE THE FOLLOWING INFORMATION IS ALSO INCLUDED	
Land Use Permit	☐ Yes ☒ No	Date Expected <u>~ June 30th (Diana & KIA)</u>
Supplementary Questionnaire	☒ Yes ☐ No	Date Expected _____
Interim Summary of Project	☐ Yes ☒ No	Date Expected <u>?</u>
MAP @ 1:250,000 (with camp, drill sites, etc.)	☒ Yes ☐ No	Date Expected <u>2 weeks</u>
14.	PROPOSED TIME SCHEDULE	
Start Date <u>July 15th</u> Completion Date <u>August 15th</u>		

MATT REES
Name (Print)

ANSEL GEORGIN
Title (Print)

Signature

JUL 16/98
Date

SECTION 1:

GENERAL

1. Applicant

NORANDA MINING AND EXPLORATION INC.
(Company, corporation, owner)

960 Arcoy Drive, THUNDER BAY, ONT.
(Postal address)

807-623-4339
(Telephone number)

807-623-0452
(Fax)

mungas@micrange-th.com (or)

(E-Mail)

reesm@normin.com

Corporate Address (if different from above)

1 Adelaide St. East, Suite 2700
(Corporate Office Address) TORONTO, ONT.

416-962-7419
(Telephone number)

416-962-7420
(Fax)

na
(E-Mail)

Project Name Nagvank or Ingi Lake -440

Location Uelville Peninsula, NT.

Closest Community Repulse Bay ~130km, Hall Beach ~220km

Latitude/Longitude Nagvank Camp 82°03'55" N, 67°46'29" W

Show the location of the project on a general location map.

Ingi drill holes: 83-694564, 67-064044 + 83-693633, 67-084803

2. Environmental Manager

(Name)

(Telephone No.)

or Project Manager

Matt Reas
(Title)

807-623-4339

Project Geologist

(or)

CHRIST BARR (Field Supervisor)

Project Geologist

3. Indicate the status of the exploration activity on the date of application. (Check the appropriate space.)

Design

✓

planning

Under construction

In operation

✓

field visit to site

Suspended

Care and Maintenance

Abandoned

4. If a change in the status of the exploration activity is expected, indicate the nature and anticipated date of such change.

If results of field visit are positive (i.e. Sure
30% we would like to start the drill program
~ July 15 to 30th.

5. Indicate the present (or proposed) schedule for the exploration activity.

Hours per week

~70

Days per week

7

Weeks per year

4

Number of employees

? 6

Number of Inuit employees

?

6. Estimate the term (life) of the exploration activity

1 month

(Months / Year)

7. How will the project affect the traditional use on Inuit Owned Lands?

Should have no effect Not located on
IOL

8. Have the Elders been consulted on effects to the traditional use on Inuit Owned Land? If so, list them. If not, why not?

Noanda personnel have planned to contact
local communities, starting in Hall Beach
during our current field visit. From this
we hope to get a sense of local Inuit concerns

9. Has the proponent consulted Inuit Organizations in the area? If so, list them.

Only through the Land Use permit application process (both Crown and Kivalliq Inuit Association)
Also see #8.

10. Has the proponent consulted surrounding communities on traditional water use areas? If so, list them. If not, why not?

See #8

11. Attach a detailed map drawn to scale showing the relative locations (or proposed locations) of the exploration activity, Sewage and solid waste facilities, and containment areas. The plan should include the water intake and pump house, fuel and chemical storage facilities. Ore and waste rock storage piles, piping distribution systems, and transportation access routes around the site. The map also should include elevation contours, water bodies and an indication of drainage patterns for the area.

12. If applicable, provide a brief history of property development work which took place before the present company gained control of the site. Include shafts, adits, mills (give rated capacity, etc.) waste dumps, chemical storage areas, tailings disposal areas and effluent discharge locations. Make references to the detailed map.

BHP Minerals Explored in the same area from 1994 to 1996, and drilled approximately 20 to 30 holes, most on the historical BHP and DNR claims/shafts.

13. Give a short description of the proposed or current freshwater intake facility, the type and operating capacity of the pumps used, and the intake screen size.

Small "honda-type" (5 HP) pumps used to draw water from nearby lake or river. Intake base equipped with very fine mesh screen.

14. At the rate of intended water usage for the exploration activity, explain water balance inputs and outputs in terms of estimated maximum draw down and recharge capability of the water source from fresh water will be drawn.

No adverse noticeable effect on water levels, as intake is quite low and almost all water is eventually returned.

15. Will any work be done that penetrates regions of permafrost?

Only in the form of drill holes (~ 1" d.i.)

16. If "YES" above, is the permafrost continuous or discontinuous?

Continuous

17. Were (or will) any old workings or water bodies (be) dewatered in order to conduct the exploration activity?

No

N/A

18. If "YES" above, indicate the name of the water body, the total volume of water to be discharged and the chemical characteristics of the water.

Water body (if unnamed give Latitude/Longitude) _____

Total volume _____ cubic meters

Receiving Watercourse _____

Dewatering flow rate into above _____ cubic meters / sec

Chemical characteristics of discharge:

T/Pb	_____	mg/L	Total Ammonia	_____	mg/L
T/Cu	_____	mg/L	Suspended solids	_____	mg/L
T/Al	_____	mg/L	Specific conductivity	_____	u/mho/cm
T/HCN	_____	mg/L	pH	_____	
T/Hg	_____	mg/L			
T/Zn	_____	mg/L			
T/Cd	_____	mg/L			
T/As	_____	mg/L			
T/Ni	_____	mg/L			
T/Mn	_____	mg/L			

19. Was (or will) the above discharge (be) treated chemically?

NO

20. If "YES" above, describe the applied treatment.

N/A

21. Briefly describe what will be done with the camp sewage.

Sewage disposed in hand dig pits and buried.
Grey water dispersed thru hand dig sump or
natural rock or boulder sump.

SECTION 2:**GEOLOGY AND MINERALOGY**

22. Briefly describe the physical nature of the mineralization, including known dimensions and approximate shape.

Target is similar to the Black Angel Mine in Greenland, a 'seder-type' Lead-Zinc ore body.

23. Briefly describe the host rock in the general vicinity of the mineralization (from the surface to the mineralized zone.)

Highly metamorphosed sedimentary gneisses, including abundant marbles (carbonate)

24. Provide a geological description of the mineralized zone. (If possible, include the percentage of metals.)

We think it will be Pb and Zn bearing massive sulphide with ~25% pyrite and/or pyrrhotite.

25. Describe the geochemical tests which have been (or will be) performed on the ore, host rock, and waste rock to determine their relative acid generation and contaminant leaching potential. Outline methods used (or to be used) and provide test results in an attached report (for static tests, kinetic tests.)

N/A as yet

26. Estimate the percentage of sulphide in the mineralization:

pyrite
pyrrhotite
pyrite / pyrrhotite mixture
arsenopyrite

~25% (?)

SECTION 3.1**EXPLORATION OPERATION**

27. Check off the type (or proposed type) of exploration operation that will be used on the property and briefly describe the method in more detail.

- a) Reverse circulation to obtain bulk sample
- b) Trenching
- c) Conventional open pit
- d) Decline
- e) Conventional underground
- f) Strip mining activity
- ☒ g) Other Exploration activity (please explain)

Diamond Drilling for Core Recovery.

28. Indicate the size and number of samples that will be obtained.

tonnes

number of samples

N/A

Please note if smaller samples are to be taken from different areas (note location) to form one large bulk sample.

29. Indicate the present or proposed average rate of exploratory production from all mineralized sources on the property:

N/A

tonnes ore / day

30. Outline the water usage (or proposed water usage) in the exploration activity, indicate the source and volume of water for each use.

	Source	Use	Volume (m^3 / day)
1.	Lake and river	drill	~100 (3)
2.			

31. If applicable, indicate or estimate the volume of natural ground water presently gaining access to the mine workings.

N/A m^3 / day

32. If applicable, outline methods used underground or on surface to decrease mine water flow. (For example: recycling)

All drill water is recycled, however the hole may lose pressure in which case the return does not come to surface and new water has to be added.

33. List the brand names and constituents of the drill additives to be used.

CaCl₂ Calcium Chloride → stop water freezing
Poly-drill or Murex → bio-degradable products.

SECTION 2:**ENVIRONMENTAL ASSESSMENT AND SCREENING**

59. Has this project ever undergone an initial environmental review? If Yes, By whom and when.

No, early for that yet.

60. Has any baseline data collection and evaluation been undertaken with respect to the various biophysical components of the environment potentially affected by the project (eg. Wildlife, soils, air quality), ie. In addition to water related information requested in this questionnaire?

☒ Yes

No

Unknown

61. If "Yes" please attach copies of reports or cite titles, authors and dates.

BHE and the GSC have conducted regional water and lake sediment sampling surveys, which although geared towards exploration, are also a very good source of environmental background levels. GSC = OF 521 + OF 522 BHEP = internal company report.

62. If no, are such studies being planned?

Briefly describe the proposals.

63. Has authorization been obtained or sought from the Department of Fisheries and Oceans for dewatering or using any waterbodies for containment of waste? *N/A*

64. Has a socio-economic impact assessment or evaluation of this project been undertaken? (this would include a review of any public concerns, land, water and cultural uses of the area, implications of land claims, compensation, local employment opportunities, etc.)

Yes _____

No ☒

Unknown _____

65. If "Yes" please describe the proposal briefly.

66. If "No" is such a study being planned? Yes ☒

No _____

*Consultation @
local communities
(in formal)*

67. Describe any cumulative impacts the project may create?

NONE

68. Does the project alter the quantity or quality or flow of waters through Inuit Owned Lands?

No

69. If yes, has the applicant entered into an agreement with the Designated Inuit Organization to pay compensation for any loss or damage that may be caused by the alteration.

70. If no compensation arrangement has been made, how will compensation be determined?

EMERGENCY RESPONSE PROCEDURES FOR SPILL REPORTING**JOB SITE SPECIFIC OR DURING TRANSPORTATION****WESTERN CANADA REGION - NWT**

1. Assess and stop the spill/leak, if possible.
2. Take immediate steps to contain and minimize the effects of the spill. (i.e. Containment/spill kits)
3. Report the spill/leak to your supervisor (Foreman, Senior Geologist, Project Geologist) as soon as possible. If your supervisor is unavailable, contact any of the following. Work through the list.

Robin Adair

Rick Kross

Rod Swire

Al Huard

(If nobody available, go to step #4)

Graham Ascough

Clint Barr

Dave King

Jonathan MacIsaac

Wayne Darch

Matt Rees

Dave MacDonald

CAMP GPS CO-ORDINATES: NAGUAK (67°29'N/92°50.1'W), INUUK LAKE (67°04.6'N/93°42.2'W)

LOCAL OPP DETACHMENT: HALL BEACH (867-928-8930), REPULSE BAY (867-462-9926)

LOCAL EXPEDITOR: NONE AT PRESENT

LOCAL FLIGHT BASE: HALL BEACH OR REPULSE BAY AIRPORT

4. Upon notification of spill, supervisors are to contact:

a) **ENVIRONMENTAL SPILL REPORTING (24 hours):** 867-920-8130

LOCAL DISTRICT ENVIRONMENTAL DETACHMENT:

24 Hour Spill Line (all of NWT)

(Fax)

Hazardous Substance Specialist

(Yellowknife only-Harvey Gankel)

Indian Northern Affairs/Canada

(Waters-Greg Cooke-will be contacted by spill line)

If unavailable or after hours, contact Canadian Coast Guard (Federal Waters):

West Arctic (Without Nunavut)

(Hay River-Terry Cooke)

East Arctic (Contact Ottawa)

Search & Rescue (24 hrs)

800-265-0237

867-874-5559

613-990-5600

800-267-7270

5. Field procedures as follows: **KEEP GOOD RECORDS**

- a) When did it happen? (time/date)
- b) What product was spilled and approx. how much?
- c) Whom did you contact/notify and when?
- d) What actions were taken to contain the spill/leak?
- e) What corrective actions were advised to be taken by authorities notified?
- f) List of witnesses.
- g) Description/diagram of spill site. i.e.) amount involved, area involved, vegetation, slope of land, runoff direction, distance to water source. (do not speculate)

6. What to report: **GIVE THE FACTS ONLY. DON'T SPECULATE**

- a) Time of spill, time spill was discovered and by whom.
- b) Type of product spilled and an approximate amount.
- c) Has the spill been stopped and contained?
- d) Known events/factors that may have influenced the spill.
- e) Location and description/diagram of spill site. i.e.) amount involved, area involved, vegetation, slope of land, runoff direction, distance to water source. (do not speculate)
- f) Actions taken to stop/contain the spill.
- g) Actions advised by authorities notified.
- h) Damage assessment/potential.
- i) List of witnesses (names) and their job titles. (record witness information ASAP and verify)
- j) List of supervisors/authorities advised of spill/leak. (get names whenever possible)
- k) Your name, job title and telephone number (business and residential)

7. Complete and submit an environmental incident investigation form. Have witnesses review your report for discrepancies. Sign off your report and if possible have witnesses initialize.

NB: As a precautionary step, ensure that all fuels/propanes when transported are done in an upright manner and securely fastened to the mode of transport. Consult with regulation/government authorities as to amounts allowed. Also ensure proper containment facilities and or kits are in place at your work site.

TELEPHONE LIST

Adair, Robin	807-767-7605 (Cell 474-8158)	Noranda office (Thunder Bay)	807-623-4339
Ascough, Graham	807-767-4941	WCB (Health & Safety-Mining)	800-661-0792
Barr, Clint	807-625-9346	Min. of Labor/WCB (reception)	867-920-3841
Darch, Wayne	807-475-5837	(Emergency-weekends only)	867-873-0123
Huard, Allen	807-345-7872	(Chief Inspector-work-Mr. Wong)	867-669-4408
Kruse, Rick	807-344-3401	(Chief Inspector-home)	867-873-3367
King, Dave	807-768-0127	(Inspector Peter Bengts-home)	867-920-4257
MacIsaac, Jonathan	807-767-8598	(Inspector Michael Horne-home)	867-873-4391
MacDonald, Dave	807-475-7570		
Rees, Matt	807-768-2249	Poison Control (YK Reg. Hosp.)	867-669-4111
Smith, Al	807-767-5696	(Emergency Ward)	
Swire, Rod	807-767-8438	NWT Fire Management	800-661-0800
	807-768-1260	(Duty Officer-Fire Season/24 hr)	867-920-6115
		(Administration-Lance Schmidt)	867-920-6114
RCMP: (24 hrs-emerg.)	867-669-1111	Air Ambulance / Med-Vac:	
RCMP: (Yellowknife)	867-669-5200	SW Arctic (Yellowknife)-24 hrs	867-669-4115
RCMP: (Local Office)	867-928-8230 (Hull Branch)	(Stanton Regional Hospital)	
	867-462-9926 (KEPUKSE Bn)	N. Mackenzie District (Inuvik)	867-777-2955
		Nunavut District (Kitikmeot)	867-669-4115
		(Keeuwatin)	867-645-2171
		(Baffin)	867-979-7300
		(Emerg. Medical Advise-24 hrs)	867-669-4100

JUN-23-98 10:47 FROM: FROM

B-LANDROIDS 001

NUNAVUT IMPACT REVIEW BOARD/NUNAVUTMI KANOGILVALLIANIKOT ELITTOHAYEOPLOTIK KATIMAYIIT

PROJECT PROPOSAL INFORMATION REQUIREMENTS

SECTION 1: APPLICANT INFORMATION

1. Applicant's full name and mailing address:

Noranda Mining and Exploration Inc.
960 Alloy Drive
Thunder Bay, Ontario
P7B 6A4

Fax:

807-623-0452

Phone:

807-623-4339

Email:

2. Head office address:

Noranda Mining and Exploration Inc.
1 Adelaide Street East
Suite 2700
Toronto, Ontario M5C 2Z6

Fax:

416-982-7920

Phone:

416-982-7419

Email:

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

CLINT BARR (As #1)

Phone (radio or otherwise):

* UNKNOWN PRESENTLY

4. Other Personnel list (name and position + subcontractors and contractors):

HELICOPTER COMPANY AND DRILL COMPANY NOT KNOWN AT THIS POINT.

Total # of personnel: 10-12

Shift schedule: None

Total # of person days: ~ 300 to 360

SECTION 2: AUTHORIZATION NEEDED

Indicate and circle the authorizations associated with the project proposal.

Inuit:

☒ Regional Inuit Association (land use permits) and licenses, lease-land, recreational, commercial, quarry permit, access permit (KIVALLIQ)

Co-Management Board:

☒ Nunavut Water Board (water license)

☐ Nunavut Planning Commission (amendment to the land use plan)

Federal:

☒ DIAND (land use permit, land lease, quarry permit, water license-if transboundary)

☐ Department of Fisheries and Oceans (under Fisheries Act - Loss of fish habitat, fisheries research, Navigable Waters Protection Act authorisation)

☐ Department of Environment (Access to protected area, scientific research, ocean disposal)

GNWT:

☐ Municipal and Community Affairs (land use permit, land lease, quarry permit)

☐ Nunavut Research Institute (research permit)

☐ Department Resources Wildlife and Economic Development (Fisheries/wildlife permit, wildlife research permit)

Other:

☐ Hamlet (development permit, lease, quarry permit)

☐ Canadian Launch Safety (launch authorisation)

☐
5. List the active permits, licences or rights related to the project and their expiry date: ACTIVE CLAIMS
IN 1, 2, AND 3 EXPIRY DATE: OCTOBER 18, 1998

SECTION 3: PROJECT PROPOSAL DESCRIPTION

7. Indicate and circle the activities related to the project proposal:

Mining/Oil & Gas:

- ☒ exploration (geophysics-grd/aq)
☒ drilling (diamond/ice, etc)
☐ advanced exploration
☐ bulk sampling
☐ mine (open pit, undergrd, etc)

Construction:

- ☒ camp (tent/comp)
☐ building
☐ winter road
☐ all-season road
☐ Other:

Tourism:

- ☐ tourism facility >20beds
☐ access to a protected area
☐ cruise ship
☐ outfitting
☐ Other:

Research:

- ☐ wildlife/fish/birds/marine
☐ survey (grd/aerial/collars)
☐ collection of species
☐ research station
☐ Other:

Municipality:

- ☐ bulk storage of fuel
☐ power generation
☐ hydroelectric
☐ nuclear
☐ industrial activity

Marine:

- ☐ off-shore drilling
☐ ship movements
☐ construction (breakwater/bridge/dock)
☐ obstruction (navigation/fish movement)
☐ ocean disposal

Other:

- ☐ commercial harvest
☐ aircraft use (helicopter/airplane)
☐ rocket launch
☐

8. Project duration and location:

Period of operation: July 15/98 to August 30/98
Proposed term of permit: July 15/98 to SEPTEMBER 1/99

Region:

- ☐ Baffin ☒ Kivalliq ☐ Kitikmeot ☐ Transboundary:

Land Status:

- ☒ Crown ☐ Commissioners' ☒ Inuit Owned Surface Lands ☒ Inuit Owned Sub-Surface Lands ☐ Other: SEE MAPS.

Co-ordinates:

Min Lat (degree/minute):	<u>67° 00'</u>	Min Long (degree/minute):	<u>83° 30'</u>
Max Lat (degree/minute):	<u>67° 45'</u>	Max Long (degree/minute):	<u>84° 30'</u>

NTS Map sheet #: 46N, 46O

Please ensure that maps of the project area are attached (1:50 000, 1:250 000)

NON-TECHNICAL PROJECT PROPOSAL SUMMARY

9. Please include a non-technical description of the project proposal, no more than 300 words, in English & Inuktitut (+ Inuinakut, if in the Kitikmeot). The project description should outline the project activities 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.

SECTION 4: MATERIAL USE

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

Equipment type and number	Size- dimensions	Proposed use
<u>17A Diamond Drill</u>	<u>~5000 lbs</u>	<u>EXPLORATION DRILL HOLE</u>
<u>CAMP - GENERATOR</u>	<u>~6 kW</u>	<u>POWER FOR CAMP</u>
<u>- WATER PUMP</u>	<u>5 HP Honda</u>	<u>WATER FOR CAMP</u>
<u>HELICOPTER (246, 500, or 400)</u>	<u>NA</u>	<u>TRANSPORT EQUIPMENT & PERSONNEL</u>
<u>TWIN OTTER</u>	<u>~3000 lbs payload</u>	<u>SUPPLY FOOD, ETC. TO CAMP</u>

11. Detail fuel and hazardous materials use:

Fuel	Number of Containers	Capacity of Containers (gal & litres)
• Diesel	<u>~50</u>	<u>205 litre drums</u>
• Gasoline	<u>~1</u>	<u>205 litre drums</u>
• Aviation fuel	<u>~100</u>	<u>205 litre drums</u>
• Propane	<u>~25</u>	<u>100 lbs cylinders</u>
• Other		

Hazardous Materials	Number of Containers/Concentration	Capacity of Containers (gal & litres)
• NONE ASIDE FROM FUEL.		
•		
•		

12. Do you have a spill contingency plan? Yes

Do you have an on-site staff training program in place for fuels and hazardous materials? Yes

Please attach the spill contingency plan and Material Safety Data Sheet, and other appropriate information about the hazardous materials associated with the proposed project.

13. Describe method of fuel transfer:

A HAND PUMP (WAGGLE PUMP) WILL BE USED TO TRANSFER FUEL FROM THE DRUMS TO THE EQUIPMENT.

SECTION 5: WASTE DISPOSAL AND TREATMENT FACILITIES

Type of waste	Projected amount generated	Method of disposal	Additional treatment procedures
Sewage	~ 5 gallons/day	HAND DUG PITS	LIME
Grey water	~ 40-50 gallons/day	HAND DUG PITS	LIME (JANU?)
garbage	~ 2 Full Bags/day	Incinerated	REMAINDER RECOVERED AND BACKHAULED.
Overburden (organic soil, waste material, tailings)	NA		BACKHAULED.
Hazardous waste:	NA		
Other:			

14. Describe the acid rock drainage potential of waste rock material and testing methods, if applicable:

THE PROJECT IS DESIGNED FOR ONLY 2 DRILL HOLES. THE EXPLORATORY DRILL HOLES ARE EXPECTED TO PRODUCE VIRTUALLY NO ACID.

SECTION 6: RESTORATION AND ABANDONMENT PLANS

15. Describe or attach the proposed restoration and abandonment plans. Please include information about on-going site remediation throughout the duration of the project.

- ALL GARBAGE WILL BE INCINERATED WITH REMAINDER BACKHAULED TO REGULATED DUMP SITE.
- ALL PITS/SUMPS WILL BE FILLED IN.
- ALL MATERIAL ASSOCIATED WITH CAMP & DRILL WILL BE REMOVED.
- ALL DRILL & CAMP SITES WILL BE RESTORED TO THEIR NATURAL HABITAT.

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:	NOT SURE BUT ASSUME THERE ARE FISH IN BARRON RIVER?	
Caribou:	SAW SEVERAL IN HERDS OF 1 TO 5, SOME HAD CALVES.	
Moose:	NO	
Raptor:	SAW ONE NEST - PROBABLY FALCON?	
Migratory Birds:	UNKNOWN	
Waterfowl:	UNKNOWN	

Seals:	NONE (Too Far Inland)	
Whales:	NONE	
Narwhals:	NONE	
Canid family (wolves, wolverines, foxes, etc.):	NONE SEEN	
Bears (grizzly, polar, black, etc.):	NONE SEEN	
Other:		
Fisheries:	NARUAK CAMP IS ON SHORE ~ 500M ESTER.	
Communities:	KEPUKE BAY ~ 135 KM SW HALL BEACH ~ 200 KM NE	
Historical/Archaeological sites:	UNKNOWN	

17. Indicate and describe other uses of the area:

- ☐ Traditional use (hunting/fishing/spiritual): UNKNOWN
- ☐ Outfitting: NO
- ☐ Tourism: NO
- ☐ Local development: NO
- ☐ Mineral development: NO
- ☐ Other: _____

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

THE PROJECT INCLUDES PROSPECTING, GEOLOGICAL MAPPING, POSSIBLY SOME GROUND GEOPHYSICAL SURVEYS (GRAVITY, ELECTROMAGNETICS), AND TWO SHORT EXPLORATORY DIAMOND DRILL HOLES. NONE OF WHICH IMPACT ON THE ENVIRONMENT OR WILDLIFE OF THE AREA.

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

NA

20. List the environmental and socio-economic studies conducted in the area:

Associated with the project: NONE BY NORANDA

Pending Research: NONE BY NORANDA

Relevant research not associated with the project: NONE BY NORANDA

SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

21. List the community representatives that have been contacted about this proposed project:

Community	Name	Organisation	Date contacted	Means	Telephone #	Fax #
	ATTEMPTED TO VISIT THE	"MAYOR" OF	HALL BEACH	DURING VISIT (JUNE 16/22/98) BUT		
	HE WAS APPARENTLY	OUT OF TOWN	FOR AWHILE.	WE WERE SEND THEM A LETTER		
	REGARDING OUR INTENTIONS AND	FORWARD ANY	CORRESPONDENCE TO YOU.			

22. Describe the level of involvement that the residents of Nunavut have had with respect to the proposed project:

NONE YET. THE PROJECT IS SO FAR PROPOSED ONLY. THE ONLY INVOLVEMENT TO DATE INCLUDES STAYING & EATING AT THE COOP IN HALL BEACH & FIRST AIR SHIPPING OUT ROCK AND SOIL SAMPLES BY CARGO.

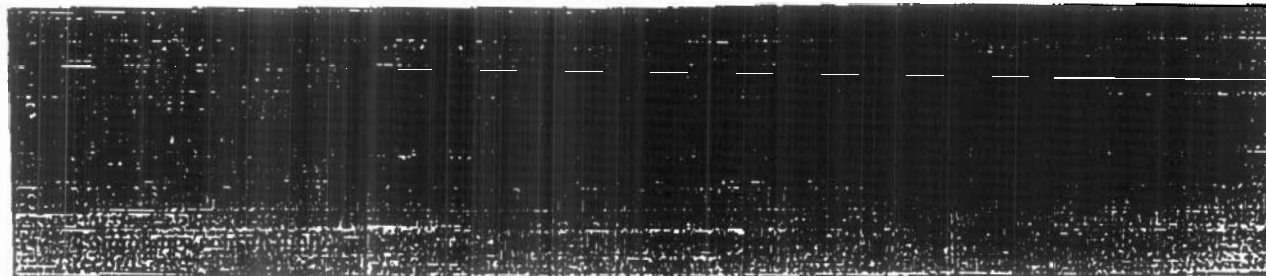
23. Describe the regional benefits of the project proposed to the residents of Nunavut:

- ☐ employment: EXPECTED TO HIRE MINIMUM 2 LOCALS (HALL BEACH OR REPULSE BAY)
☐ training programs: MAY WILL BE IN-HOUSE IN PROSPECTING, GEOPHYSICAL SURVEYS, ETC.
☐ contracts: LENGTH OF FIELD SEASON (30-60 DAYS)
☐ Inuit Impact Benefits Agreements, if applicable: NA
☐ Other: _____

24. Describe and attach documentation regarding community support or support for the proposed project.

THIS IS A VERY "GRASS-ROOTS" TYPE PROGRAM. ALTHOUGH WE WERE UNABLE TO MEET THE MAYOR, MOST OF THE TOWNSPEOPLE AND AIRPORT PERSONNEL SEEMED TO WELCOME THE POTENTIAL EMPLOYMENT EITHER THROUGH DIRECT OR INDIRECT MEANS (I.E. EXPEDITING, FREIGHT, FOOD ORDERS, ETC.)

APPROVED:	PROJECT GEOLOGIST	JUNE 30, 1998
CMBan		



NOTE: THIS WAS TOO DARK TO READ BUT I BELIEVE IT IS FOR 'OFFICE USE ONLY'?

Distribution List for NIRB File #: 98W06N100
Project Name: Mineral Exploration near Ingi Lake
NORANDA Mining and Exploration Inc.

Kivalliq List# of Pages 28

	Contact Name:	Phone #:	Fax #:
Nunavut:			
NTI	Environmental Manager	983-2517	983-2723
Kivalliq IA	Chief Land Administrator	867-645-2810	867-645-3855
NPC	Executive Director	613-238-1155	613-238-5724
NWB	Executive Director	867-360-6338	867-360-6369
NWMB	Executive Director	867-979-6962	867-979-7785
Keewatin Wildlife Federation	Chairperson	867-857-2695	867-857-2990
Federal:			
DIAND - Nunavut	District Manager	867-979-4405	867-979-6445
DIAND - Kivalliq	Regional Inspector	867-645-2831	867-645-2592
DFO - Eastern Arctic	Regional Biologist	867-979-6274	867-979-8039
DOE	Mgr. Environmental Protection Branch	867-920-6050	867-873-8185
CCG	Ken Brant	519 383-1862	519-383-1989
Territorial Government:			
RWED - HQ	Kelly Robertson	867-920-8069	867-873-0114
RWED - Kivalliq	Tim Devine	867-857-2828	867-857-2986
MACA	Shawn Maley	867-645-5042	867-645-2321
Transportation	Jason Brown	867-645-5087	867-645-3357
PWNHC	Charles Arnold	867-920-8084	867-873-0205
Other:			
BQCMB	Chairperson	613-733-2007	613-733-1304
Communities:			
Repulse Bay (Kivalliq)			
Hamlet	SAO	867-462-9952	867-462-4144
Land & Resources Cmte.	Chairperson	867-462-9952	867-462-4144
Arviq HTO	Chairperson	867-462-4334	867-462-4335
Hall Beach (Baffin)			
Hamlet	SAO	867-928-8829	867-928-8871
Land & Resources Cmte.	Chairperson	867-928-8829	867-928-8871
HTO	Chairperson	867-928-8994	867-928-8765