

P.O. Box 119 GJOA HAVEN, NU XOB 1J0 TEL: (867) 360-6338 FAX: (867) 360-6369 שב ל בת ל הוד ל ה

GENERAL WATER LICENCE APPLICATION (APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: <u>Guide to Completing and Submitting a Water Licence Application for a New Licence</u> for more information about this application form.

LICENCE NO: (for NWB use only)			
1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION (name, address)	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)		
Natalie Plato Director, Contaminated Sites Indian and Northern Affairs Canada PO Box 2200	N/A		
Phone: 867-975-4730 Fax: 867-975-4736 e-mail: natalie.plato@inac-ainc.gc.ca	Phone: Fax: e-mail: (Attach authorization letter.)		
3. NAME OF PROJECT (including the name of the	e project location)		
PIN-E Cape Peel Intermediate Distant Early Warning	(DEW) Line Site Remediation Project		
LOCATION OF UNDERTAKING			
Project Extents			
NW: Latitude: (69°03'25" N) Longitude: (107°21'25" W) NE: Latitude: (69°03'25" N) Longitude: (107°16'16" W) SE: Latitude: (69°02'04" N) Longitude: (107°17'38" W) SW: Latitude: (69°02'04" N) Longitude: (107°21'25" W)			
Camp Location(s)			
Latitude: (69°02'50.55" N) Longitude: (107°18'58.65" W)			
5. MAP - Attach a topographical map, indicating the main components of the undertaking.			
NTS Map Sheet No.: 077D Map Name: Cambridge Bay Map Scale: 1/250,000 Map Scale: 1/50,000 Map Scale: 1/50,000			
Maps & drawings of the PIN-E Cape Peel Site are provided in Appendix 5.			

6. NATURE OF INTEREST IN THE LAND - Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).	
Sub-surface	
☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI) Date (expected date) of issuance: Date of expiry:	=
☐ Mineral Lease from Indian and Northern Affairs Canada (INAC) Date (expected date) of issuance: Date of expiry:	_
Surface	
✓ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC) Date (expected date) of issuance: June 1, 2011 Date of expiry: 2 years after issuance	
✓ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA) Date (expected date) of issuance: June 1, 2011 Date of expiry: 2 years after issuance	
☐ IOL Authorization from Kivalliq Inuit Association (KivIA) Date (expected date) of issuance: Date of expiry:	-
☐ IOL Authorization from Qikiqtani Inuit Association (QIA) Date (expected date) of issuance: Date of expiry:	-
Commissioner's Land Use Authorization Date (expected date) of issuance: Date of expiry:	-
Other: Date of expiry:	-
Name of entity(s) holding authorizations:	-
Indian and Northern Affairs Canada – Contaminated Sites	
Indian and Northern Arian's Canada – Contaminated Sites	
7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION	
Indicate the land use planning area in which the project is located.	
□ North Baffin □ Keewatin □ South Baffin □ Sanikiluaq □ Akunniq ☑ West Kitikmeot	
Is a land use plan conformity determination required?	
☐ Yes ☑ No	
If Yes, indicate date issued and attach copy N/A. If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.	,
Written confirmation from the NPC confirming that a land use plan conformity determination is not required is provided in Appendix 10.	

8.	NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION				
	Is an Article 12 Part 4 screening determi	nation required?			
	☐ Yes ☐ N	0			
	If Yes, indicate date issued and attach of If No, provide written confirmation from Norequired.	opy IIRB confirming that a screening determination is not			
		rt 1 and Part 2 Forms are being submitted the forms can be found in Appendices 1 & 2.			
9.	DESCRIPTION OF UNDERTAKING – L	ist and attach plans and drawings or project proposal.			
Drawin A B B A N B C B C C B C C C C C C C C C C C C C	Ings provided in Appendix 5. The princing Access to site via sealift and fixed wing Establish a camp to support site operating Existing site infrastructure will be demondazed and non-hazerdous materials All hazerdous materials and soil will be Non-hazerdous wastes will be packaged non-hazerdous waste landfill to be consequent on the consequence of the c	aircraft. ons. lished and demolition wastes will be segregated into and disposed of properly. disposed of at an off-site licensed disposal facility. I and transported to PIN-D Ross point for disposal at the tructed there. be remediated as described in the RAP. eatment of hydrocarbon contaminated soil. escribed in the RAP. idated, depending on test results the contents will off site for disposal. Empty barrels will be crushed and osal in the non-hazardous waste landfill to be uried debris (non-hazardous) will be collected, packaged non-hazardous waste landfill to be constructed there. Incred and repaired as required ed and the material will be used to assist in the			
10.	OPTIONS – Provide a brief explanation considered to carry out the project.	of the alternative methods or locations that were			
	emedial Action Plan (RAP) provided in an another in the servironmental issues at the servironmental iss	Appendix 4 considers alternative remedial methods site.			

11.	11. CLASSIFICATION OF PRIMARY UNDERTAKING - Indicate the primary classification of undertaking by checking one of the following boxes.				
	☐ Industrial ☐ Mining and Milling (includes exploration/drilling/explor	Agricultural ration camps)			
	Municipal (includes camps/lodges)	Recreational			
	Power	✓ Miscellaneous (describe below):			
	Remediation Project				
	See Schedule II of Northwest Territories Waters Regulati	ons for Description of Undertakings.			
		ation in accordance with applicable Supplemental Information Guidelines (SIG) must be ed with a New Water Licence Application. Indicate which SIG(s) are applicable to your tion.			
	☐ Hydrostatic Testing☐ Tannery☑ Tourist / Remote Camp				
	 ✓ Landfarm & On-Site Storage of Hydrocarbon Contam ☐ Onshore Oil and Gas Exploration Drilling ☐ Mineral Exploration / Remote Camp ☐ Advanced Exploration 	nd Gas Exploration Drilling ration / Remote Camp bloration			
	Mine Development				
	☐ Municipal ☐ General Water Works				
	Power				
12.	WATER USE - Check the appropriate box(s) to indicate applied for.	the type(s) of water use(s) being			
	☐ To cross a watercourse ☐ To n	ivert a watercourse nodify the bed or bank of a watercourse d control			

13.	B. QUANTITY AND QUALITY OF WATER INVOLVED - For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.		
	Name of water source(s) (show location(s) Fresh Water Lake (See Appendix 4, Rem Coordinates are: Latitude: (69°03'25" N)	nedial Action Plan, Figure 2.0). GPS	
	Drinking Water Quality Guidelines. Prio	ing the Phase III and samples met Canadian r to using the lake for drinking water it will be leets Canadian Drinking Water Quality Guidelines.	
	Provide the overall estimated quantity of wa	ater to be used: 7.0 m³/day	
	115 Litres/Day/Person x 50 People (max 1,250 Litres/Day for miscellaneous activ		
	Provide the estimated quantity(s) of water terms Fresh Water Lake – 7.0 Cubic Metres/Da		
	Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.) Camp Operation = 5,750 Litres/Day Miscellaneous Activities (i.e. equipment and drum washing) = 1,250 Litres/Day		
	Describe the method of extraction(s): <u>Water will be extracted using an intake hose with a screen to ensure no fish become trapped.</u> <u>Water will be pumped from the lake into a tank on either a truck or trailer and transported to the camp where it will be pumped into the camp tank.</u>		
	Estimated quantity(s) of water returned to s	source(s) <u>0</u> m³/day	
	Describe the quality of water(s) returned to	source(s): Not applicable	
14.	WASTE – Check the appropriate box(s) to deposited.	o indicate the types of waste(s) generated and	
	✓ Solid Waste ✓ Hazardous	☑ Waste oil ☑ Greywater ☑ Sludges ☑ Contaminated soil and/or water	
			

15. QUANTITY AND QUALITY OF WASTE INVOLVED – For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Sewage	Black Water	30 litres/day x 50 people (max) = 1,500 litres/day	Sewage Lagoon	Sewage Lagoon
Waste Oil	Oil	0.001	Collected in drums	Shipped south for recycling and/or disposal
Solid Waste	Camp waste (Paper, packaging, food, etc.)	1.0 cubic metre per day	Incineration (combustibles only)	Shipped to the PIN-D Ross Point site for disposal in the Non- Hazardous Waste Landfill
Greywater	Grey Water	80 litres/day x 50 people (max) = 4,000 litres/day	Sewage Lagoon	Sewage Lagoon
Hazardous Waste – Asbestos	Asbestos containing tiles, insulation, etc.	Total = 20 m ³	Double-bagged in Yellow bags, placed in a barge container and shipped to PIN-D Ross Point	Placed in the Non- Hazardous Waste Landfill to be constructed at PIN-D Ross point
Hazardous Waste – PCBs, Heavy Metals	Items contaminated with PCBs and Heavy Metals	Total = 62 m ³	Material will be packaged as per the requirements of the Transportation of Dangerous Goods Regulations	Shipped south for treatment and/or disposal at Licenced Hazardous Waste Facilities
Contaminated Soil – Tier I	Soil lightly contaminated with inorganic elements and/or PCBs	Total = 86 m ³	Packaged and shipped to PIN- D Ross point	Placed into the Non- Hazardous Waste Landfill to be
2. PIN-E Nunavut Wate	r Board (NWB) Water Licen	ce Application.doc 6		constructed at PIN-D Ross Point

16.	OTHER AUTHORIZATIONS – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. For each provide the following:
	Authorization: None
	Administering Agency: Not applicable
	Project Activity: Not applicable
	Date (expected date) of issuance: Date of expiry:
17.	PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES - Describe direct, indirect, and cumulative impacts related to water and waste.
the rep	vironmental Assessment Screening for the project was completed in March 2010. A copy of port "Environmental Assessment Screening Report: PIN-E, Cape Peel Intermediate DEW Line is provided in Appendix 6.
18.	WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER
	Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.
None	
	Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.
N/A	
19.	INUIT WATER RIGHTS
	Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).
None	

20. CONSULTATION – Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

A community meeting to review and discuss the draft Remedial Action Plan (RAP) was held in Cambridge Bay in January 2010. The meeting was held at the Luke Novoligak Community Hall on January 26, 2010 at 19:00. The results of this meeting were used to finalize the RAP.

- No concerns were raised during this meeting.

The project was also discussed at a meeting with the Kitikmeot Inuit Association (KIA) on the afternoon of January 27, 2010. This meeting took place at the KIA office in Kugluktuk and involved Geoff Clarke - Director of Lands and Environment, Stanley Anablak - Lands Inspector, and Luigi Torretti - Senior Environmental Officer.

- Concerns during this meeting related to activities taking place on Inuit Owned Land (IOL). To address this we will limit the activity on IOL to necessary activities only. All borrow areas, landfarms and other structures will be constructed on Federal Crown Lands.

Additional community meetings will be held throughout the project to keep community members up to date on project activities and employment/contracting opportunities.

21. SECURITY INFORMATION

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

N/A

22. FINANCIAL INFORMATION

Provide a statement of financial responsibility.

If the applicant is a business entity, provide a list of the officers of the company.

If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

N/A

23. **STUDIES UNDERTAKEN TO DATE** - List and attach copies of studies, reports, research, etc.

A list of studies, reports, etc. are provided in the table below:

DATE	TITLE	AUTHOR
1995	Environmental Study of Abandoned DEW Line Sites III.	Environmental
	One Auxiliery and Eight Intermediate Sites in the	Sciences Group,
	Canadian Arctic. Volumes 1, 2 & 3	Royal Roads
		Military College
2005	Draft Report on Human Health Screening Level Risk	SENES Consultants
	Assessment for Cape Peel, PIN-E, Former Military Site	Limited
2009	Phase III Environmental Site Assessment PIN-E Cape	AECOM Canada
	Peel Intermediate DEW Line Site	Limited
2010	Remedial Action Plan PIN-E Cape Peel intermediate DEW	AECOM Canada
	Line Site	Limited
2010	Environmental Assessment Screening Report: PIN-E	AECOM Canada
	Cape Peel Intermediate DEW Line Site	Limited

Copies of some of these reports have been provided in the Appendix indicated. Copies of the

repor	ts not included v	vill be pro	vided upon r	equest.			
24.						d completion dates for each re, and post closure).	_
	Construction Proposed Start		ust 2011 Pro	posed Co	ompletion Date:	October 2012 (month/year)	
	Operation Proposed Start	` Date: <u>Aug</u>	,	posed Co	empletion Date:		
	Closure Proposed Start	Date: <u>Ser</u>		Propose	d Completion D	vate: December 2012 (month/year)	
	Post - Closure Proposed Start		t <mark>ober 2012</mark> Pronth/year)	roposed C	ompletion Date	e: March 2013 (month/year)	
	For each applic	able phas	e of developm	ent indica	te which seaso	n(s) activities occur.	
	Construction Winter] Spring	Summer	☐ Fall	All season		
	Operation Winter] Spring	Summer	☐ Fall	All season		
	Closure Winter] Spring	Summer	Fall	All season		
	Post - Closure Winter] Spring	Summer	⋉ Fall	All season		

25. PROPOSED TERM OF LICENCE

Number of years (maximum of 25 years): Five (5) years

Requested Date of Issuance: July 2011 Requested Expiry Date: July 2016

(month/year) (month/year)

(The requested date of issuance must be <u>at least</u> three (3) months from the date of application for a type B water licence and <u>at least</u> one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any prelicensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's *Guide 5: Processing Water Licence Applications* for more information)

26. ANNUAL REPORTING – If not using the NWB's <u>Standardized Form for Annual Reporting</u>, provide details regarding the content of annual reports and a proposed outline or template of the annual report.

Will use the NWB Standardized Form for Annual Reporting.

37 14	Name (Print)	Title (F	Print) Signature Date		
	Natalie Plato	Direc Contamina			
28.	SIGNATURE				
	☐ Yes	⋉ No	If no, date expected		
	use fee will be ca	alculated by the N	CDN (Payee Receiver General for Canada). The actual water IWB based upon the amount of water authorized for use in the time of issuance of the licence.		
	Yes	⋉ No	If no, date expected		
	Application Fee of	\$30.00 CDN (Paye	ee Receiver General for Canada).		
	¥ Yes	□No	If no, date expected		
	Inuktitut and/or Inu	innaqtun Summary	y of Application.		
	¥ Yes	☐ No	If no, date expected		
	English Summary	of Application.			
	¥ Yes	☐ No	If no, date expected		
	Information addres	sing Supplemental	al Information Guideline (SIG) , where applicable (see Block 11)		
	¥ Yes	☐ No	If no, date expected		
	Completed Genera	al Water Licence A	opplication form.		
	Yes	⋉ No	If no, date expected January 2011		
	Written confirmation impact assessment		confirming that NIRB's requirements regarding development essed.		
	¥ Yes	☐ No	If no, date expected		
	Written confirmation conformity have be		onfirming that NPC's requirements regarding land use plan		
27.	CHECKLIST – The begin.	e following must be included with the application for the water licensing process to			